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SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT EP-W-05-042

21 August 2013
20114-081-998-0850-49
DC No. A-6839

Ms. Martha Bosworth
U.S. EPA Region I - New England
Emergency Planning & Response Branch
5 Post Office Square, Suite 100
Mail Code OSRR07-2
Boston, Massachusetts 02109-3912

Subject: Case No. 43395; SDG No. A4C19
ChemTech Consulting Group (Chem)
Jard Company Inc
Bennington, Vermont
AROCLOR: 18/Soil/A4C22-A4C30, A4C33-A4C41
(Field Duplicates A4C26/A4C30)
5/Aqueous Equipment Blanks/A4C19, *A4B13, A4B14, A4B16, A4B54*
4/Soil PEs/A4C20, A4C21, A4C31, A4C32
CERCLIS No. VTD048141741
TDD No. 12-10-0008, Task No. 0850-49

Dear Ms. Bosworth:

A Tier II validation was performed on the organic analytical data for 18 soil samples and five aqueous equipment (rinstate) blanks collected by WESTON START at the Jard Company Inc site in Bennington, Vermont, and for four PE samples obtained from EPA Region I. *Italicized sample ID numbers in the list above are associated with samples in this SDG, but reported in another SDG.* The samples were analyzed under CLP following SOW SOM01.2 as low/medium level for Aroclor compounds. The data were evaluated as Tier II level in accordance with the "Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses" dated December 1996, and the USEPA CLP National Functional Guidelines for Superfund Organic Methods, and were based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues.
- * • Data Completeness.
- * • Preservation and Technical Holding Times.
- * • GC/MS and GC/ECD Instrument Performance Checks.
- * • IC and CC.
- * • Blanks.
- * • Surrogate Compounds.
- NA • IS.
- * • MS/MSD.
- * • Field Duplicates.

- NA • Sensitivity Check (MDL Study or LFB).
- * • PE Samples/Accuracy Check.
- Target Compound Identification.
- Sample Quantitation and Reported Quantitation Limits.
- NA • TICs.
- * • SVOC and PEST/PCB Cleanup.
- * • System Performance.
- NA • SEDD/ADR.

* = No qualifications will be applied based on this parameter.

Table I summarizes overall evaluation of the data with reference to the DQO and potential usability issues. Qualified data are summarized in Data Summary Tables 1 and 2.

Overall Evaluation of Data and Potential Usability Issues

See Table I for overall evaluation of data and potential usability issues.

PE Samples/Accuracy Check

The criteria used by START for qualification of sample data based on the PE sample results are as follows:

PE Score	Action	
	Non-Detects	Positive Results
In Window	Accept	Accept
Warning Low/High	Accept	Accept
Action Low	Reject (R)	Estimate (J)
Action High	Accept	Estimate (J)
TCL Misses	Reject (R)	Varies
TCL Contaminants	Accept	Varies
TIC Misses	Varies	Varies
TIC Contaminants	Varies	Varies

All non-compliant PE scores were investigated by checking raw data, calculations, calibrations, possible matrix interferences, and blank contamination. Unless otherwise noted, all results reported by the laboratory were found to be correct, based on the data generated by the laboratory.

The laboratory properly identified and quantified the soil Aroclor-1242 PE sample (A4C31, PE No. ASX0179). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1242 PE sample (A4C20, PE No. ASX0182). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1254 PE sample (A4C21, PE No. AS1486). No qualifications were applied.

The laboratory properly identified and quantified the soil Aroclor-1248 PE sample (A4C32, PE No. AS1431). No qualifications were applied.

Target Compound Identification

The dual column correlation did not meet %D confirmation criteria for the following Aroclor compounds:

Sample	Compound	% D	Action
A4C36	Aroclor-1254	60.7	J

Actions:

- J = Estimate results when %D >25 but <100 for pesticides or %D >25 but <500 for PCBs.
- R = Reject results when %D >100 for pesticides or %D >500 for PCBs.
- U = Qualify result as undetected at the CRQL when %D >100 for pesticides or %D >500 for PCBs, and both results are less than the CRQL.

Sample results have been qualified as indicated above.

Sample Quantitation and Reported Quantitation Limits

The percent moisture for sediment samples A4C22 and A4C23 was greater than 70% but less than 90%. The SOW indicates in Exhibit D, Aroclors, Section 10.1.4.3.2, that if a sample contains greater than 65% moisture, the laboratory may use up to 50 grams without contacting the Sample Management Office (SMO). Since routine analytical methods cannot successfully analyze high moisture samples, positive and non-detected results will be estimated (J/UJ) in these samples.

Per request of EPA Region I on 31 May 2013, these two samples were re-extracted and re-analyzed by the laboratory. The samples were validated in the data validation memorandum regarding SDG A4C22.

Ms. Martha Bosworth
21 August 2013
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Case 43395; SDG A4C19

Please contact the undersigned at (978) 552-2100 if you have any questions or need further information.

Very truly yours,

WESTON SOLUTIONS, INC.
Region I START



William W. Mahany
Principal Project Scientist



John Burton
Lead Chemist

email cc: Jennifer Feranda (CLP PO - Region II) - DV Letter w/Data Tables, and ORDA Form only –
Feranda.jennifer@epa.gov

Attachments: Table I: Overall Evaluation of Soil Data
Data Summary Key
Acronym List
Data Summary Tables 1 and 2
DV Worksheets
PE Sample Score Reports (included in DV worksheets)
Field Sampling Notes (including a copy of sampler's COC Records)
CSF Audit (DC-2 Form) - Evidence Audit Photocopy (Including CSF Receipt/Transfer Form)
DQO Summary Form

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TABLE I

JARD COMPANY INC
Case No. 43395; SDG No. A4C19

Overall Evaluation of Soil Data

AROCLORs					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
1. To obtain sufficient data from surface and subsurface soil samples collected at the Jard Company site for PCB (Aroclor) analysis, to document potential source areas located on and off the property, and to document contamination in the soil and sediment associated with source areas located on the property.	<i>Analytical Method:</i> Yes, SOM01.2 <i>Sampling Method:</i> Yes, Hand Augers, and Stainless Steel Scoops.	Refer to qualifications in attached Data Summary Table 1. 1, 2	Refer to qualifications in attached Data Summary Table 1.		1. The positive Aroclor 1254 result in sample A4C36 was estimated (J) due to poor dual-column correlation. 2. The non-detected results for samples A4C22 and A4C23 were estimated (UJ) due to high moisture content (>70% but <90%). The laboratory did not choose to extract additional sample as indicated in the SOW, and did not contact SMO.

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

DATA SUMMARY KEY ORGANIC DATA VALIDATION

- J = The associated numerical value is an estimated quantity.
- R = The data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification. The R replaces the numerical value or SQL.
- U = The compound was analyzed for, but not detected. The associated numerical value is the SQL or the adjusted SQL.
- UJ = The compound was analyzed for, but not detected. The associated numerical value is the estimated SQL.
- EB = The compound was identified in an aqueous EB that was used to assess field contamination associated with soil/sediment samples.
- TB = The compound was identified in an aqueous TB that was used to assess field contamination associated with soil/sediment samples.
- BB = The compound was identified in an aqueous BB that was used to assess field contamination associated with soil/sediment samples.

ACRONYM LIST ORGANIC DATA VALIDATION

AQ	aqueous	SQL	Sample Quantitation Limit
AQ FB	aqueous field blank	S/S	soil/sediment
BB	Bottle Blank	S/S (m)	soil/sediment medium level
B/N	base/neutral compound	START	Superfund Technical Assessment and Response Team
°C	degrees Celsius	SVOC	semivolatile organic compound
CC	Continuing Calibration	SW	surface water
CCV	Continuing Calibration Verification	TB	Trip Blank
CLP	Contract Laboratory Program	TCL	Target Compound List
COC	Chain-of-Custody record	TDD	Technical Direction Document
COR	Contracting Officer Representative	TIC	Tentatively Identified Compound
CRQL	Contract Required Quantitation Limit	TR	Traffic Report
CSF	Complete SDG File	VOC	volatile organic compound
%D	percent difference	WESTON	Weston Solutions, Inc.
DAS	Delivery of Analytical Services		
DMC	Deuterated Monitoring Compound		
DQO	Data Quality Objective		
DV	Data Validation		
DW	drinking water		
EB	Equipment Blank		
EPA	Environmental Protection Agency		
GC/ECD	Gas Chromatograph/Electron Capture Detector		
GC/MS	Gas Chromatograph/Mass Spectrometry		
GW	groundwater		
IC	Initial Calibration		
IS	Internal Standard		
kg	kilogram		
L	liter		
LCS	Laboratory Control Sample		
LFB	Laboratory Fortified Blank		
MDL	Method Detection Limit		
µg	microgram		
MS	Matrix Spike		
MSD	Matrix Spike Duplicate		
NA	Not Applicable		
ND	non-detected result		
ng	nanogram		
NERL	New England Regional Laboratory		
OSC	On-Scene Coordinator		
ORDA	Organic Regional Data Assessment		
PAH	polynuclear aromatic hydrocarbon		
PCB	polychlorinated biphenyl compound		
PEST/PCB	pesticide/polychlorinated biphenyl compound		
PE	Performance Evaluation		
Pos	positive result		
QC	Quality Control		
%R	percent recovery		
RPD	Relative Percent Difference		
RRF	Relative Response Factor		
RSD	Relative Standard Deviation		
SDG	Sample Delivery Group		
SOW	Statement of Work		
HRS Reference #77			

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4C19
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C22	A4C23	A4C24	A4C25	A4C26	A4C27	A4C28
SAMPLE LOCATION			SD-51	SD-50	SD-51	SD-53	SD-54	SD-52	SD-21
STATION LOCATION			JCS-559	JCS-556	JCS-561	JCS-566	JCS-570	JCS-564	JCS-514
LABORATORY NUMBER			E1925-04	E1925-05	E1925-06	E1925-07	E1925-10	E1925-11	E1925-12
COMPOUND	MDL	CRQL							
Aroclor-1016	1.8	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1221	5.4	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1232	0.90	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1242	4.3	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	86
Aroclor-1248	1.9	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1254	2.2	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1260	2.2	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1262	9.8	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
Aroclor-1268	4.6	33	140 UJ	170 UJ	53 U	49 U	45 U	45 U	61 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013	4/16/2013
DATE EXTRACTED			4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013
DATE ANALYZED			4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013
SAMPLE WEIGHT (GRAMS)			30.0	30.1	30.0	30.0	30.1	30.1	30.0
% SOLID			23.3	19.1	61.9	66.6	72.6	73.3	54.2

NOTES: µg/Kg = micrograms per Kilogram

All results are reported on a Dry Weight Basis.

CRQL = Contract Required Quantitation Limit

MDL = Method Detection Limit

U = Value is Non-Detected.

UJ = Value is Non-Detected, and Detection Limit is Estimated.

J = Value is Estimated.

R = Value is Rejected.

* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4C19
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C29	A4C30	A4C33	A4C34	A4C35	A4C36	A4C37
SAMPLE LOCATION			SD-53	SD-101	P005-SS-04	P005-SS-06	P010-SS-04	P010-SS-06	P020-SS-15
STATION LOCATION			JCS-565	JCS-585	JCS-341	JCS-346	JCS-220	JCS-224	JCS-583
LABORATORY NUMBER			E1925-13	E1925-14	E1925-17	E1925-18	E1925-19	E1925-20	E1925-21
COMPOUND	MDL	CRQL							
Aroclor-1016	1.8	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1221	5.4	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1232	0.90	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1242	4.3	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1248	1.9	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1254	2.2	33	71 U	46 U	46 U	44 U	40 U	110 J	48 U
Aroclor-1260	2.2	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1262	9.8	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
Aroclor-1268	4.6	33	71 U	46 U	46 U	44 U	40 U	57 U	48 U
DILUTION FACTOR			1.0	1.0	1.0	1.0	1.0	1.0	1.0
DATE SAMPLED			4/16/2013	4/16/2013	4/11/2013	4/11/2013	4/10/2013	4/10/2013	4/18/2013
DATE EXTRACTED			4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013	4/23/2013
DATE ANALYZED			4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013
SAMPLE WEIGHT (GRAMS)			30.0	30.1	30.1	30.0	30.0	30.1	30.1
% SOLID			46.3	71.4	71.0	75.6	83.1	57.5	68.7

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4C19
LABORATORY: CHEMTECH
CONSULTING GROUP

DATA SUMMARY TABLE 1
AROCOR IN SOIL ANALYSIS
µg/Kg

SAMPLE NUMBER			A4C38	A4C39	A4C40	A4C41			
SAMPLE LOCATION			P002-SS-02	P002-SS-07	P001-SS-07	P001-SS-10			
STATION LOCATION			JCS-424	JCS-438	JCS-499	JCS-506			
LABORATORY NUMBER			E1925-22	E1925-23	E1925-24	E1925-25			
COMPOUND	MDL	CRQL							
Aroclor-1016	1.8	33	41 U	44 U	44 U	41 U			
Aroclor-1221	5.4	33	41 U	44 U	44 U	41 U			
Aroclor-1232	0.90	33	41 U	44 U	44 U	41 U			
Aroclor-1242	4.3	33	41 U	44 U	44 U	41 U			
Aroclor-1248	1.9	33	41 U	44 U	44 U	41 U			
Aroclor-1254	2.2	33	41 U	44 U	44 U	41 U			
Aroclor-1260	2.2	33	41 U	44 U	44 U	41 U			
Aroclor-1262	9.8	33	41 U	44 U	44 U	41 U			
Aroclor-1268	4.6	33	41 U	44 U	44 U	41 U			
DILUTION FACTOR			1.0	1.0	1.0	1.0			
DATE SAMPLED			4/15/2013	4/15/2013	4/15/2013	4/15/2013			
DATE EXTRACTED			4/23/2013	4/23/2013	4/23/2013	4/23/2013			
DATE ANALYZED			4/25/2013	4/25/2013	4/25/2013	4/25/2013			
SAMPLE WEIGHT (GRAMS)			30.1	30.0	30.1	30.0			
% SOLID			80.0	74.1	74.0	80.4			

NOTES: µg/Kg = micrograms per Kilogram
All results are reported on a Dry Weight Basis.
CRQL = Contract Required Quantitation Limit
MDL = Method Detection Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
R = Value is Rejected.
* = Reported value is from diluted analysis.

SITE: JARD COMPANY INC
CASE: 43395 SDG: A4C19
LABORATORY: CHEMTECH CONSULTING GROUP

DATA SUMMARY TABLE 2
AROCOR AQUEOUS ANALYSIS
µg/L

	SAMPLE NUMBER		A4C19						
	SAMPLE LOCATION		RB-45						
	STATION LOCATION		JCW-029						
	LABORATORY NUMBER		E1925-01						
COMPOUND	MDL	CRQL							
Aroclor-1016	0.080	1.0	1.0 U						
Aroclor-1221	0.29	1.0	1.0 U						
Aroclor-1232	0.030	1.0	1.0 U						
Aroclor-1242	0.030	1.0	1.0 U						
Aroclor-1248	0.020	1.0	1.0 U						
Aroclor-1254	0.050	1.0	1.0 U						
Aroclor-1260	0.040	1.0	1.0 U						
Aroclor-1262	0.20	1.0	1.0 U						
Aroclor-1268	0.060	1.0	1.0 U						
DILUTION FACTOR			1.0						
DATE SAMPLED			4/18/2013						
DATE EXTRACTED			4/19/2013						
DATE ANALYZED			4/23/2013						
SAMPLE VOLUME (mL)			1000						

NOTES: µg/L = micrograms per Liter
MDL= Method Detection Limit
CRQL = Contract Required Quantitation Limit
U = Value is Non-Detected.
UJ = Value is Non-Detected, and Detection Limit is Estimated.
J = Value is Estimated.
* = Reported value is from diluted analysis.
mL = milliLiter

REGION I, EPA-NE ORGANIC REGIONAL DATA ASSESSMENT (ORDA)*

Case No.: 43395

Site Name: JARD Company

SDG No.: A4C19

No. of Samples/Matrix: 22/ Soil

Lab Name: Chemtech Consulting

Validation Contract WESTON

SOW#/Contract#: SOM01.2

Validator's Name: J. Burton

EPA-NE DV Tier Level: Tier II

Date DP Rec'd by EPA-NE: 5/13/13

TPO/PO: **ACTION _____ FYI _____

DV Completion Date: 5/22/13

ANALYTICAL DATA QUALITY SUMMARY

1. Preservation and Contractual Holding Times:
2. GC/MS / GC/ECD Instrument Performance Check:
3. Initial Calibration:
4. Continuing Calibration:
5. Blanks:
6. DMCs or Surrogate Compounds:
7. Internal Standards:
8. Matrix Spike/Matrix Spike Duplicate:
9. Sensitivity Check:
10. PE samples - Accuracy Check:
11. Target Compound Identification:
12. Compound Quantitation and Reported QLs:
13. Tentatively Identified Compounds:
14. Semivolatile Cleanup/Pesticide/PCB Cleanup:
15. Data Completeness:
16. Overall Evaluation of Data:

VOC	SVOC	PEST	ARO
NA	NA	NA	0
		NA	NA
			0
NA	NA		
		NA	3
			NA
			0

o = Data had no problems or were qualified due to minor contractual problems.

m = Data were qualified due to major contractual problems.

z = Data were rejected as unusable due to major contractual problems.

Action Items (z items):

Areas of Concern (in items): 2 background sediment samples were extracted at 30g when % moisture > 65% instead of 50 grams of more. The elevated non-detect results may impact scoring of other sediment samples for the site

Comments:

*This form assesses the analytical data quality in items of contractual compliance only. It does not assess sampling errors and/or non-contractual analytical issues that affect data quality.

** Check "ACTION" only if contractual defects resulted in reduced payment/data rejection recommendations.

Validator: J. Burton

Date: 5/22/13

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name: Chemtech Consulting SOW #/Contract #: SOM01.2
Case No.: 43395 Sampling Dates: 4/10 - 4/18/13
SDG No.: A4C19 Shipping Dates: 4/18/13
No. of Samples/Matrix: 1/AA
22/SOI Date Rec'd by Lab: 4/19/13

Traffic Report Sample Nos: A4C22 - A4C30, A4C33 - A4C41
Trip Blank No.:
Equipment Blank No: A4C19
Field Duplicate Nos: A4C26, A4C30
PE Nos: A4C20, A4C21, A4C31, A4C32

The Region I, EPA - NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision 12/96 was used to evaluate the data and/or approved modifications to the EPA - NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attached modified criteria from EPA approved QAPjP or amendment to the QAPjP).

A Tier II or a Tier III evaluation was used to validate the data. If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation:

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation and Technical Holding Times
- GC/MS and GC/ECD Instrument Performance Check
- Initial and Continuing Calibrations
- Blanks
- Surrogate Compounds
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate
- Field Duplicates
- Sensitivity Check
- PE Samples/Accuracy Check
- Target Compound Identification
- Compound Quantitation and Reported Quantitation Limits
- TICs
- Semivolatile and Pesticide/PCB Cleanup
- System Performance

Region I Definitions and Qualifiers:

A - Acceptable Data

J - Numerical value associated with compound is an estimated quantity.

R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.

U - Compound not detected at that numerical sample quantitation limit.

UJ - The sample quantitation limit is an estimated quantity.

TB, EB - Compound detected in aqueous trip blank or aqueous equipment blank associated with soil/sediment samples.

Validator's Name: John Burton Company Name: WESTON Phone Number: 978-552-2100
Date Validation Started: 5/20/13 Date Validation Completed: 5/22/13

VOA/SV Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	@
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS	@
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	NA
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	
VOA/SV-XV	SEMIVOLATILE CLEANUP	
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA	*

NA vector only

Pest/ARO Worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	@
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK- RESOLUTION	NA
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK- RETENTION TIMES	✓
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK- ACCURACY CHECK OF INITIAL CALIBRATION	✓
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK- PESTICIDE DEGRADATION	NA
Pest/PCB-III	INITIAL CALIBRATION	✓
Pest/PCB-IV	CONTINUING CALIBRATION	✓
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	✓
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	✓
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	✓
Pest/PCB-VII	PESTICIDE CLEANUP	NA
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	✓
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	✓
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	NA
VOA/SV-Pest/PCB-XI	ACCURACY CHECK/ PE SCORE SHEETS	@
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
TABLE II - WORKSHEET	OVERALL EVALUATION OF DATA	*

* - See DV Memo

I certify that all criteria were met for the worksheets checked above.

Signature: 

Name: John Burton

Date: 05/22/12

Date Received

5/22/13 (17a, 17b, 17c)

Date: 5/22/13

Sampler: G. Hornik

Company: WESTON

Contacted: Yes No Date: _____

1. PRESERVATION AND HOLDING TIMES

Cooler Temp: 5, 4, 4° Documented: Page: 461-463

Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days" (*Extraction Code).

Sample No. (TR No.)	Matrix	Pres. Code	Date Sampled	PEST						ARO					
				Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action	Date Extracted	# of Days from Samp. to Ext.	*Ext. Code	Date Analyzed	# of Days from Ext. to Anal.	Action
A4C22	SOIL	1, 3	4/16/13							4/23/13	7	SOX	4/25/13	2	None
A4C23															
A4C24															
A4C25															
A4C26															
A4C27															
A4C28															
A4C29															
A4C30															
A4C33			4/11/13								12				
A4C34			4/10/13								13				
A4C35															
A4C36															
A4C37			4/18/13								5				
A4C38			4/15/13								8				
A4C39															
A4C40															
A4C41															
A4C19	AQFB		4/18/13							4/19/13	1	Sep	4/23/13	4	
A4C20	PE		4/17/13							4/23/13	6	SOX	4/25/13	2	
A4C21															
A4C31															
A4C32															

Preservation Code:

1. Cool @ 4°C (± 2°C)
2. Preserve with HCl to ≤ pH 2.
3. Protect from light.
4. Freeze.
5. Room temperature (avoid excessive heat).
6. Encore sampler (48 hour hold time).

*Extraction Code:

- L/L - Liquid/Liquid
SON - Sonication
SEP - Separatory funnel
SOX - Soxhlet
SPE - Solid Phase Extraction

Action Code:

- J - Estimate (J) detected values.
UJ - Estimate (UJ) non-detected values.
R - Reject (R) non-detected values.

Matrix Codes:

- AQ - Aqueous
S/S - Soil/Sediment
AQ FB - Aqueous Field Blank

Validator: J. Banta

Date: 5/20/13

V. Rinsate Blank Tabulation - list the applicable rinsate (equipment) blanks below:

Rinsate Blank No.	Sample No.	Equipment Rinsed to Generate the RB	Matrix Applies to:
RB- 41	A4B13	Hand Auger Scoop	SS
RB- 42	A4B14	Hand Auger Metal Scoop	SS
RB- 44	A4B16	Hand Auger Metal Scoop	SS
RB- 30	A4B54	Hand Auger Metal Scoop	SD
RB- 45	A4C19	Hand Auger	SS
RB-			

Matrix Codes: SS - surface soil
SD - sediment
SO - source soil
SB - soil boring
GW - groundwater
DW - drinking water
SW - surface water

Note: Apply each RB only to the matrix to which it corresponds. For example, apply the hand auger RB to the soil samples, but not to the surface water samples.

If more than one hand auger/soil sample RB was collected, the RBs may be batched and the highest hit from the batch used to determine the action levels. However, if one RB exhibits an unusual amount of contamination, apply this RB to only the associated samples. Do not batch this RB and apply to all samples of the same matrix.

Validator: J. Santos

Date: 5/20/13

SDG No.: A4C19

Case: 43395

Are more than one-half the PE analytes within criteria for each parameter?

Yes

No

Always submit this sheet and attach PE score sheets

[illegible]

*For Region I PE indicate the Region I PE Score report result: Action High, Action Low, TCL Miss, or TCL Contaminant.

Validator:

Date:

5120713

PES SCORING EVALUATION REPORT

PES ASX0182

Rev: 1

EPA Sample No.: A4C20

Report Date: 05/13/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

SDG No.: A4C19

Lab File ID: PO008786.D

Date Analyzed: 04/25/2013

Decanted: No

Injection Vol. (uL): 1.0

Sulfur Cleanup: No

Case No.: 43395

Matrix: Soil

Date Received: 04/19/2013

Sample Wt./Vol. (g/mL): 30:0 g

Extraction Type: SOXH

GPC Cleanup: No

Dilution Factor: 1.0

Lab Code: CHEM

SAS/Client No.: NA

Lab Sample ID: E1925-02

Date Extracted: 04/23/2013

% Moisture: 0.0

Conc. Extract Vol. (uL): 10000

pH: NA

Units: ug/Kg

Analysis Method: SOM01.2

Scoring Method: SOM01.2

Comments:

[illegible]

PES SCORING EVALUATION REPORT

Rev: 1 EPA Sample No.: A4C21

Page 1 of 1

Lab Name: Chemtech Consulting Group
Contract: EPW11030
SDG No.: A4C19
Lab File ID: PO008787.D
Date Analyzed: 04/25/2013
Decanted: No
Injection Vol. (uL): 1.0
Sulfur Cleanup: No

Case No.: 43395
Matrix: Soil
Date Received: 04/19/2013
Sample Wt./Vol. (g/mL): 30.0 g
Extraction Type: SOXH
GPC Cleanup: No
Dilution Factor: 1.0

Lab Code: CHEM
SAS/Client No.: NA
Lab Sample ID: E1925-03
Date Extracted: 04/23/2013
% Moisture: 0.0
Conc. Extract Vol. (uL): 10000
pH: NA
Units: ug/Kg

Analysis Method: SOM01.2
Scoring Method: SOM01.2
Comments:

[illegible]

PES SCORING EVALUATION REPORT

Rev: 1

EPA Sample No.: A4C31

Report Date: 05/21/2013

Page 1 of 1

Lab Name: Chemtech Consulting Group

Contract: EPW11030

Case No.: 43395

Lab Code: CHEM

SAS/Client No.: NA

SDG No.: A4C19

Matrix: Soil

Lab Sample ID: E1925-15

Lab File ID: PO008799.D

Date Received: 04/19/2013

Date Extracted: 04/23/2013

Date Analyzed: 04/25/2013

Sample Wt./Vol. (g/mL): 30.0 g

% Moisture: 0.0

Decanted: No

Extraction Type: SOXH

Conc. Extract Vol. (uL): 10000

Injection Vol. (uL): 1.0

GPC Cleanup: No

pH: NA

Sulfur Cleanup: No

Dilution Factor: 1.0.

Units: ug/Kg

Analysis Method: SOM01.2

Scoring Method: SOM01.2

Comments:

[illegible]

PES SCORING EVALUATION REPORT

Rev: 1

Report Date: 05/21/2013

EPA - NE - Data Validation Worksheet
VOA/SV - Pest/PCB - XIII

XIII. SAMPLE QUANTITATION

If no PE, do sample calculation.

Recalculate, from the raw data, the concentration for one positive detect and one reported sample quantitation limit (SQL) for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C 2. a. requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one SQL calculation on this worksheet.)

Fraction		Calculation*	
VOC		Detect:	Non-detect QL:
Sample No.:			
Reported Compound:			
Reported Value:			
Non-detected Compound:			
Reported Quantitation Limit:			
SVOC		Detect:	Non-detect QL:
Sample No.:			
Reported Compound:			
Reported Value:			
Non-detected Compound:			
Reported Quantitation Limit:			
P/PCB		Detect:	Non-detect QL:
Sample No.:	A4C36	$\frac{(A_x)(V_t)(DF)(GR)}{(CF)(V_i)(W_s)(D)}$ $\frac{(631931)(10000)(1)(1)}{(2433220)(1)(30.1)(.575)} = 124.5$ <p style="text-align: center;">↓ lower</p>	$Adj\ CRQL = CRQL \times \frac{(W_x)(V_t)(DF)}{(W_s)(V_c)(D)}$ $33 \times \frac{(30)(10000)(1)}{(30.1)(10000)(.575)}$ $= 570 \checkmark$
Reported Compound:	1254		
Reported Value:	110		
Non-detected Compound:	1242		
Reported Quantitation Limit:	570		

* - NA for Tier II if PE score is OK.

Do all soil/sediment samples have % solids greater than 30%? Y ☒ N ☐ If solids <30%, have sample volumes been increased sufficiently to compensate? Y ☐ N ☒
If no. list sample numbers A4C22, A4C23

Validator: 

Date: 5/20/13

$$\frac{(417436)(10000)}{(2436470)(30.1)(.575)} = 98.9$$

$$\frac{(303920)(10000)}{(1945298)(30.1)(.575)} = 90.3$$

$$\frac{(909256)(10000)}{(3848525)(30.1)(.575)} = 136.5 \approx 112.6 \rightarrow \overline{113} \rightarrow \textcircled{110} \checkmark$$

All Criteria Met _____

Case: 43395
SDG: A4C19

Site Name: JARD Company
Page 1 of 1

[illegible]

Use Comments section to list compounds that went to "U" due to Blank Contamination Actions or Co-elution with Aroclors.

Actions:

- J - Estimate results when %D > 25% but ≤100% for pesticides or %D >25% but ≤500% for PCBs.
 J@ - %D >25% but ≤100% for pesticides or %D > 25% but ≤500% for PCBs. Previously qualified as estimated by laboratory due to quantitation below the quantitation limit. No further qualification is needed.
 R - Reject results when %D >100 for pesticides or %D >500% for PCBs.
 U - Qualify result as undetected at the CRQL when %D >100% for pesticides or %D >500% for PCBs and both results are < the CRQL.
 U* - Report the non-detected result from the diluted analysis.
 U^ - Compound not confirmed by GC/MS. Raise detection limit to reported concentration.
 DL - Report the result from the diluted analysis.

Validator: 

Date: 5/20/13

- 1550 hrs: Equipment rinsate blank sample RB-40 (Sample #: JCW-023; CLP #: A4B12) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- 1615 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

10 April 2013 (Wednesday) – Surface Soil Sampling

Weather: Showers, low to mid 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. In addition, SAM Bosworth and Chemist Clifford also arrived on-site.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0815 hrs: Sample aliquots for PCB field screening, collected to date between 8 April and 9 April, were transferred to EPA chemist Clifford for processing and PCB field screening analyses. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmister soil classification and to prepare sample aliquots for field screening.
- 0825 hrs: Surface soil sample P010-SS-02A (Sample #: JCS-211) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-02, located to the west of the garage, and later submitted for PCB field screening analysis.
- 0830 hrs: Surface soil sample P010-SS-09A (Sample #: JCS-232) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-09, located at the western edge of the yard, and later submitted for PCB field screening analysis.
- 0835 hrs: Surface soil sample P010-SS-02B (Sample #: JCS-212) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-02 (see above) and later submitted for PCB field screening analysis.
- 0840 hrs: Surface soil sample P010-SS-09B (Sample #: JCS-233) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-09 (see above) and later submitted for PCB field screening analysis.
- 0845 hrs: Surface soil sample P010-SS-02C (Sample #: JCS-213) and surface soil sample field duplicate P010-SS-105C (Sample #: JCS-214) were collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-02 (see above) and later submitted for PCB field screening analysis.
- 0850 hrs: Surface soil sample P010-SS-09C (Sample #: JCS-234) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-09 (see above) and later submitted for PCB field screening analysis.
- 0900 hrs: Surface soil sample P010-SS-03A (Sample #: JCS-215) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-

SS-03, located directly adjacent to the house on the south side, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-10A (Sample #: JCS-235) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-10, located in the center of the backyard, and later submitted for PCB field screening analysis.

0905 hrs: Surface soil sample P010-SS-10B (Sample #: JCS-236) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-10 (see above) and later submitted for PCB field screening analysis.

0910 hrs: Surface soil sample P010-SS-03B (Sample #: JCS-216) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-03 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-10C (Sample #: JCS-237) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-10 (see above) and later submitted for PCB field screening analysis.

0915 hrs: Surface soil sample P010-SS-07A (Sample #: JCS-226) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-07, located near the western boundary of the property, and later submitted for PCB field screening analysis.

0920 hrs: Surface soil sample P010-SS-03C (Sample #: JCS-217) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-03 (see above) and later submitted for PCB field screening analysis.

0930 hrs: Surface soil sample P010-SS-04A (Sample #: JCS-218) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-04, located adjacent to surface soil sample location P010-SS-03, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-07B (Sample #: JCS-227) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-07 (see above) and later submitted for PCB field screening analysis.

0935 hrs: Surface soil sample P010-SS-01A (Sample #: JCS-208) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-01, located directly adjacent to the porch at the southwest corner of the house, and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-04B (MS/MSD) (Sample #: JCS-219) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-04 (see above) and later submitted for PCB field screening analysis.

0940 hrs: Surface soil sample P010-SS-07C (Sample #: JCS-228) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P010-SS-07 (see above) and later submitted for PCB field screening analysis.

0945 hrs: Surface soil sample P010-SS-01B (Sample #: JCS-209) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P010-SS-04C (Sample #: JCS-220) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P010-SS-04 (see above) and later submitted for PCB field screening analysis.

0955 hrs: Surface soil sample P010-SS-01C (Sample #: JCS-210) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-01 (see above) and later submitted for PCB field screening analysis.

- 1000 hrs: Surface soil sample P010-SS-08A (Sample #: JCS-229) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-08, located at the northwest corner of the property, and later submitted for PCB field screening analysis.
In addition, equipment rinsate blank sample RB-41 (Sample #: JCW-024; CLP #: A4B13) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- 1005 hrs: Surface soil sample P010-SS-05A (Sample #: JCS-221) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-05, located directly adjacent to the shed at the southwest corner of the yard, and later submitted for PCB field screening analysis.
In addition, surface soil sample P010-SS-08B (Sample #: JCS-230) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1015 hrs: Surface soil sample P010-SS-05B (Sample #: JCS-222) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1020 hrs: Surface soil sample P010-SS-08C (Sample #: JCS-231) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1040 hrs: Surface soil sample P010-SS-06A (Sample #: JCS-223) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P010 at surface soil sample location P010-SS-06, located in a pile to the west of surface soil sample location P010-SS-05, and later submitted for PCB field screening analysis.
- 1045 hrs: Surface soil sample P009-SS-07A (Sample #: JCS-254) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-07, located at the southwest corner of the property in the brush/wooded area, and later submitted for PCB field screening analysis.
- 1050 hrs: Surface soil sample P010-SS-06B (Sample #: JCS-224) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P010-SS-06 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P009-SS-07B (Sample #: JCS-255) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1055 hrs: Surface soil sample P009-SS-11A (Sample #: JCS-266) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-11, located along the western boundary in an area of high contamination from previous sampling rounds, and later submitted for PCB field screening analysis.
- 1100 hrs: Surface soil sample P010-SS-06C (Sample #: JCS-225) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P010-SS-06 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P009-SS-07C (Sample #: JCS-256) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1115 hrs: Surface soil sample P009-SS-10A (Sample #: JCS-263) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-10, located along the northern boundary of the property adjacent to the property marker, and later submitted for PCB field screening analysis.

- In addition, surface soil sample P009-SS-11B (Sample #: JCS-267) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-11 (see above) and later submitted for PCB field screening analysis.
- 1120 hrs: Surface soil sample P009-SS-10B (Sample #: JCS-264) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1125 hrs: Surface soil sample P009-SS-11C (Sample #: JCS-268) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-11 (see above) and later submitted for PCB field screening analysis.
- 1130 hrs: Surface soil sample P009-SS-10C (Sample #: JCS-265) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P009-SS-01A (Sample #: JCS-238) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-01, located directly adjacent to the paved driveway and the southeast corner of the house, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-05A (Sample #: JCS-249) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-05, located south of the patch of trees in the center of the yard, and later submitted for PCB field screening analysis.
- 1300 hrs: Surface soil sample P009-SS-05B (Sample #: JCS-250) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-05 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-09A (Sample #: JCS-260) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-09, located in the center of the yard in a low-lying spot, and later submitted for PCB field screening analysis.
- 1305 hrs: Surface soil sample P009-SS-01B (Sample #: JCS-239) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-01 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P009-SS-01 due to refusal.
- In addition, surface soil sample P009-SS-05C (Sample #: JCS-251) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-05 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P009-SS-09B (Sample #: JCS-261) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1310 hrs: Surface soil sample P009-SS-08A (Sample #: JCS-257) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-08, located directly to the north of the patch of pine trees, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-09C (Sample #: JCS-262) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1315 hrs: Surface soil sample P009-SS-02A (Sample #: JCS-240) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-02, located near the southwest corner of the house, and later submitted for PCB field screening analysis.

- 1320 hrs: Surface soil sample P009-SS-08B (Sample #: JCS-258) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1325 hrs: Surface soil sample P009-SS-02B (Sample #: JCS-241) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1330 hrs: Surface soil sample P009-SS-02C (Sample #: JCS-242) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1355 hrs: Surface soil sample P009-SS-03A (Sample #: JCS-243) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-03, located directly adjacent to the sump pump outfall, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-06A (Sample #: JCS-252) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-06, located near the northwest corner of the dirt driveway, and later submitted for PCB field screening analysis.
- Also, surface soil sample P009-SS-08C (Sample #: JCS-259) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1400 hrs: Surface soil sample P009-SS-03B (Sample #: JCS-244) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1405 hrs: Surface soil sample P009-SS-03C (Sample #: JCS-245) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P009-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P009-SS-06B (Sample #: JCS-253) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-06 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected from surface soil sample location P009-SS-06 due to refusal.
- 1415 hrs: Surface soil sample P009-SS-04A (Sample #: JCS-246) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P009 at surface soil sample location P009-SS-04, located at the northern boundary of the residence adjacent to the dirt driveway, and later submitted for PCB field screening analysis.
- 1420 hrs: Surface soil sample P009-SS-04B (Sample #: JCS-247) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P009-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1515 hrs: Surface soil sample P009-SS-04C (Sample #: JCS-248) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P009-SS-04 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P007-SS-01A (Sample #: JCS-269) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-01, located directly adjacent to the deck at the southwest corner of the house, and later submitted for PCB field screening analysis.
- 1525 hrs: Surface soil sample P007-SS-01B (Sample #: JCS-270) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P007-SS-07A (Sample #: JCS-287) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-

SS-07, located directly south of sample location P007-SS-05, and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-08A (Sample #: JCS-290) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-08, located directly adjacent to the residence beneath the deck, and later submitted for PCB field screening analysis.

Also, surface soil sample P007-SS-09A (Sample #: JCS-293) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-09, located at the southwest corner of the property, and later submitted for PCB field screening analysis.

1535 hrs: Surface soil sample P007-SS-01C (Sample #: JCS-271) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-07B (Sample #: JCS-288) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-07 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P007-SS-09B (Sample #: JCS-294) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-09 (see above) and later submitted for PCB field screening analysis.

1540 hrs: Surface soil sample P007-SS-08B (Sample #: JCS-291) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-08 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-09C (Sample #: JCS-295) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-09 (see above) and later submitted for PCB field screening analysis.

1545 hrs: Surface soil sample P007-SS-07C (Sample #: JCS-289) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-07 (see above) and later submitted for PCB field screening analysis.

1550 hrs: Surface soil sample P007-SS-08C (Sample #: JCS-292) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-08 (see above) and later submitted for PCB field screening analysis.

1600 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START Member Kelly proceeded to deliverer samples and paperwork to FedEx, located in Menands, NY for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:

TR #: 1-041013-124717-0004, Master AB #: 5141 2418 0673, five aqueous equipment rinsate blank samples for PCB Aroclor analysis.

START Team Member reviewed and turned in completed surface soil data sheets for each sample location.

Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.

1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

11 April 2013 (Thursday) – Surface Soil Sampling

Weather: Cloudy, few sprinkles, low 40 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Ackerman, Dupree, Robinson, Saylor, and Sharp arrived at the Jard property. In addition, SAM Bosworth and Chemist Clifford also arrived on-site.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 0825 hrs: Surface soil sample P007-SS-04A (Sample #: JCS-278) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-04, located at the northwest corner of the property in a low-lying area, and later submitted for PCB field screening analysis.
START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 0830 hrs: Surface soil sample P007-SS-03A (Sample #: JCS-275) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-03, located west of sample location P007-SS-02 at the northern boundary of the property, and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-04B (Sample #: JCS-279) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-04 (see above) and later submitted for PCB field screening analysis.
Also, surface soil sample P007-SS-05A (Sample #: JCS-281) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-05, located to the east of P007-SS-04 in a low-lying area, and later submitted for PCB field screening analysis.
- 0835 hrs: Surface soil sample P007-SS-05B (Sample #: JCS-282) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0840 hrs: Surface soil sample P007-SS-03B (Sample #: JCS-276) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-04C (Sample #: JCS-280) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-04 (see above) and later submitted for PCB field screening analysis.
- 0845 hrs: Surface soil sample P007-SS-03C (Sample #: JCS-277) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P007-SS-05C (MS/MSD) (Sample #: JCS-283) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0850 hrs: Surface soil sample P007-SS-02A (Sample #: JCS-272) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-

SS-02, located directly adjacent to the driveway at the northern boundary of the property, and later submitted for PCB field screening analysis.

0855 hrs: Surface soil sample P007-SS-02B (Sample #: JCS-273) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-02 (see above) and later submitted for PCB field screening analysis.

0900 hrs: Surface soil sample P007-SS-02C (Sample #: JCS-274) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P007-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-10A (Sample #: JCS-296) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-10, located at the northeast corner of the house, and later submitted for PCB field screening analysis.

0905 hrs: Surface soil sample P007-SS-06A (Sample #: JCS-284) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P007 at surface soil sample location P007-SS-06, located at the southwest corner of the driveway, and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-06B (Sample #: JCS-285) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-06 (see above) and later submitted for PCB field screening analysis.

0915 hrs: Surface soil sample P007-SS-06C (Sample #: JCS-286) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-06 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P007-SS-10B (Sample #: JCS-297) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P007-SS-10 (see above) and later submitted for PCB field screening analysis.

0920 hrs: Surface soil sample P007-SS-10C (Sample #: JCS-298) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P007-SS-10 (see above) and later submitted for PCB field screening analysis.

0930 hrs: Surface soil sample P006-SS-01A (Sample #: JCS-299) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-01, located in the northeast corner of the property within a flower garden, and later submitted for PCB field screening analysis.

0935 hrs: Surface soil sample P006-SS-01B (Sample #: JCS-300) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-05A (Sample #: JCS-311) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-05, located at the western edge of the property adjacent to Park St in a low-lying area, and later submitted for PCB field screening analysis.

0940 hrs: Surface soil sample P006-SS-04A (Sample #: JCS-308) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-04, located at the southwest corner of the house in a low-lying area, and later submitted for PCB field screening analysis.

0945 hrs: Surface soil sample P006-SS-01C (Sample #: JCS-301) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-04B (Sample #: JCS-309) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-04 (see above) and later submitted for PCB field screening analysis.

- Also, surface soil sample P006-SS-05B (Sample #: JCS-312) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-05 (see above) and later submitted for PCB field screening analysis.
- 0950 hrs: Surface soil sample P006-SS-04C (Sample #: JCS-310) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-04 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-05C (Sample #: JCS-313) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1000 hrs: Surface soil sample P006-SS-03A (Sample #: JCS-305) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-03, located between the north side of the house and the driveway, and later submitted for PCB field screening analysis.
- 1005 hrs: Surface soil sample P006-SS-03B (Sample #: JCS-306) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-07A (Sample #: JCS-317) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-07, located in a flower bed directly adjacent to the compost pile, and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08A (Sample #: JCS-320) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-08, located in a low-lying spot approximately 20 feet west of the shed, and later submitted for PCB field screening analysis.
- 1010 hrs: Surface soil sample P006-SS-03C (Sample #: JCS-307) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-07B (Sample #: JCS-318) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-07 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08B (Sample #: JCS-321) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1015 hrs: Surface soil sample P006-SS-07C (Sample #: JCS-319) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-07 (see above) and later submitted for PCB field screening analysis.
- 1020 hrs: Surface soil sample P006-SS-06A (Sample #: JCS-314) was collected with a plastic scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-06, located along the western property boundary in a low-lying area, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P006-SS-06B (Sample #: JCS-315) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-06 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P006-SS-08C (Sample #: JCS-322) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1035 hrs: Surface soil sample P006-SS-02A (Sample #: JCS-302) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-

SS-02, located directly adjacent to the southeast corner of the house within a flower bed, and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-06C (Sample #: JCS-316) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P006-SS-06 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P006-SS-09A (Sample #: JCS-323) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-09, located within the vegetable garden directly adjacent to the gate, and later submitted for PCB field screening analysis.

1040 hrs: Surface soil sample P006-SS-02B (Sample #: JCS-303) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-02 (see above) and later submitted for PCB field screening analysis.

1045 hrs: Surface soil sample P006-SS-02C (Sample #: JCS-304) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-09B (Sample #: JCS-324) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-09 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P006-SS-10A (Sample #: JCS-326) was collected with a plastic scoop at a depth of 0 to 6 inches bgs from residential property P006 at surface soil sample location P006-SS-10, located within the vegetable garden directly north of sample P006-SS-09, and later submitted for PCB field screening analysis.

1050 hrs: Surface soil sample P006-SS-10B (Sample #: JCS-327) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P006-SS-10 (see above) and later submitted for PCB field screening analysis.

1100 hrs: Surface soil sample P006-SS-09C (Sample #: JCS-325) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P006-SS-09 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P006-SS-10C (Sample #: JCS-328) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P006-SS-10 (see above) and later submitted for PCB field screening analysis.

Also, equipment rinsate blank sample RB-42 (Sample #: JCW-025; CLP #: A4B14) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.

1120 hrs: Surface soil sample P005-SS-07A (Sample #: JCS-348) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-07, located in the northwest corner of the residence in a low-lying spot, and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-10A (Sample #: JCS-357) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-10, located directly adjacent to a shed in the center of the yard, and later submitted for PCB field screening analysis.

1125 hrs: Surface soil sample P005-SS-07B (Sample #: JCS-349) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-07 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P005-SS-09A (Sample #: JCS-354) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-09, located along the southern edge of the property in a low-lying area, and later submitted for PCB field screening analysis.

- Also, surface soil sample P005-SS-10B (Sample #: JCS-358) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1130 hrs: Surface soil sample P005-SS-07C (Sample #: JCS-350) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-07 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P005-SS-09B (Sample #: JCS-355) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-09 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P005-SS-10C (Sample #: JCS-359) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1140 hrs: Surface soil sample P005-SS-09C (Sample #: JCS-356) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1155 hrs: Surface soil sample P005-SS-04A (Sample #: JCS-340) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-04, located on the western bank of the brook directly adjacent to the footbridge, and later submitted for PCB field screening analysis.
- 1205 hrs: Surface soil sample P005-SS-04B (Sample #: JCS-341) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-04 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected from surface sample location P005-SS-04 due to refusal.
- 1210 hrs: Surface soil sample P005-SS-08A (Sample #: JCS-351) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-08, located in between the sheds adjacent to a maple tree, and later submitted for PCB field screening analysis.
- 1215 hrs: Surface soil sample P005-SS-08B (Sample #: JCS-352) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1220 hrs: Surface soil sample P005-SS-05A (Sample #: JCS-342) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-05, located adjacent to the driveway in the northeast corner of the property, and later submitted for PCB field screening analysis.
- 1225 hrs: Surface soil sample P005-SS-03A (Sample #: JCS-337) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-03, located on the western bank of the brook directly adjacent to the footbridge, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P005-SS-05B (Sample #: JCS-343) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-05 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P005-SS-08C (Sample #: JCS-353) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1230 hrs: Surface soil sample P005-SS-03B (Sample #: JCS-338) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-03 (see above) and later submitted for PCB field screening analysis.

- 1235 hrs: Surface soil sample P005-SS-05C (Sample #: JCS-344) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1240 hrs: Surface soil sample P005-SS-03C (Sample #: JCS-339) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1250 hrs: Surface soil sample P005-SS-06A (Sample #: JCS-345) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-06, located adjacent to the brook running through the property on the eastern bank, and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P005-SS-06B (Sample #: JCS-346) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1300 hrs: Surface soil sample P005-SS-06C (Sample #: JCS-347) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1310 hrs: Surface soil sample P005-SS-01A (Sample #: JCS-329) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-01, located directly adjacent to the carport in the southeast corner of the property, and later submitted for PCB field screening analysis.
- 1315 hrs: Surface soil sample P005-SS-01B (Sample #: JCS-330) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1320 hrs: Surface soil sample P004-SS-05A (Sample #: JCS-372) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-05, located at the southern edge of the residence, adjacent to the gravel driveway, and later submitted for PCB field screening analysis.
- 1325 hrs: Surface soil sample P005-SS-01C (Sample #: JCS-332) and surface soil sample field duplicate P005-SS-106C (Sample #: JCS-333) were collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P005-SS-01 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P005-SS-02A (Sample #: JCS-334) and surface soil sample field duplicate P005-SS-107A (Sample #: JCS-335) were collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P005 at surface soil sample location P005-SS-02, located on the western bank of a brook running through the residence, and later submitted for PCB field screening analysis.
- 1330 hrs: Surface soil sample P005-SS-02B (Sample #: JCS-336) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P005-SS-02 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P005-SS-02 due to refusal.
In addition, surface soil sample P004-SS-05B (Sample #: JCS-373) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1335 hrs: Surface soil sample P004-SS-05C (Sample #: JCS-374) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-05 (see above) and later submitted for PCB field screening analysis.
- 1345 hrs: Surface soil sample P004-SS-10A (Sample #: JCS-386) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-

- SS-10, located at the southern edge of the residence, west of P004-SS-05, and later submitted for PCB field screening analysis.
- 1350 hrs: Surface soil sample P004-SS-10B (Sample #: JCS-387) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1355 hrs: Surface soil sample P004-SS-09A (Sample #: JCS-383) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-09, located east of the swing set, and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-10C (Sample #: JCS-388) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1400 hrs: Surface soil sample P004-SS-02A (Sample #: JCS-363) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-02, located in the center of the yard in a low-lying area, and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-09B (Sample #: JCS-384) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1405 hrs: Surface soil sample P004-SS-04A (Sample #: JCS-369) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-04, located within the former location of an above-ground pool, and later submitted for PCB field screening analysis.
- 1410 hrs: Surface soil sample P004-SS-09C (Sample #: JCS-385) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1415 hrs: Surface soil sample P004-SS-02B (Sample #: JCS-364) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1425 hrs: Surface soil sample P004-SS-02C (Sample #: JCS-365) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-02 (see above) and later submitted for PCB field screening analysis.
- 1430 hrs: Surface soil sample P004-SS-04B (Sample #: JCS-370) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-04 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-07A (Sample #: JCS-378) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-07, located adjacent to the northwest corner of the house at the sump pump outfall, and later submitted for PCB field screening analysis.
Also, surface soil sample P004-SS-08A (Sample #: JCS-380) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-08, located adjacent to the swing set near the western boundary of the property, and later submitted for PCB field screening analysis.
- 1435 hrs: Surface soil sample P004-SS-04C (Sample #: JCS-371) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-04 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-08B (Sample #: JCS-381) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-08 (see above) and later submitted for PCB field screening analysis.

- 1440 hrs: Surface soil sample P004-SS-07B (Sample #: JCS-379) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-07 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P004-SS-07 due to refusal.
- 1445 hrs: Surface soil sample P004-SS-01A (Sample #: JCS-360) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-01, located behind the shed at the western boundary of the property, and later submitted for PCB field screening analysis.
- 1450 hrs: Surface soil sample P004-SS-01B (Sample #: JCS-361) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-01 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-08C (Sample #: JCS-382) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-08 (see above) and later submitted for PCB field screening analysis.
- 1455 hrs: Surface soil sample P004-SS-01C (Sample #: JCS-362) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1510 hrs: Surface soil sample P004-SS-03A (Sample #: JCS-366) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-03, located adjacent to the house in the front yard, and later submitted for PCB field screening analysis.
- 1515 hrs: Surface soil sample P004-SS-03B (Sample #: JCS-367) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-06A (Sample #: JCS-375) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P004 at surface soil sample location P004-SS-06, located to the east of the shed, and later submitted for PCB field screening analysis.
- 1520 hrs: Surface soil sample P004-SS-03C (Sample #: JCS-368) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P004-SS-03 (see above) and later submitted for PCB field screening analysis.
In addition, surface soil sample P004-SS-06B (Sample #: JCS-376) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P004-SS-06 (see above) and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P004-SS-06C (Sample #: JCS-377) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P004-SS-06 (see above) and later submitted for PCB field screening analysis.
START member Hornok discussed available PCB screening results, locations of screening results samples and potential inferences with background surface soil sample screening results. r with COR Bosworth
START Team Member reviewed and turned in completed surface soil data sheets for each sample location.
Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

12 April 2013 (Friday) – Surface Soil Sampling

Weather: Rain and snow, low 30 °F

- 1045 hrs: Background surface soil sample P020-SS-01C (Sample #: JCS-451) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1100 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START Member Sharp and Robinson proceeded to deliver samples and paperwork to FedEx, located in Brattleboro, VT for shipment. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
TR #: 1-041213-092831-0005, Master AB #: 5141 2418 0695, two aqueous equipment rinsate blank samples for PCB Aroclor analysis.
START Team Members reviewed and turned in completed surface soil data sheets for each sample location
- 1200 hrs: Remaining START personnel secured IDW drums, secured the site and departed the Jard property for the START office located in Andover, MA.

15 April 2013 (Monday) – Surface Soil Sampling

Weather: Partly sunny, mid 50 °F

- 1015 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Christine Scesny, and Sharp arrived at the Jard property.
- 1030 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, dogs/pets, snakes, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.
- 1055 hrs: Background surface soil sample P020-SS-02A (Sample #: JCS-452) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-02, located along the western boundary of the northern residence directly south of sample location P020-SS-01, and later submitted for PCB field screening analysis.
In addition, background surface soil sample P020-SS-09A (Sample #: JCS-588) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-09, located at the eastern boundary of the northern residence along Bowen Road, and later submitted for PCB field screening analysis.
- 1100 hrs: Background surface soil sample P020-SS-02B (Sample #: JCS-453) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-02 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected at background surface soil sample location P020-SS-02 due to refusal.
In addition, background surface soil sample P020-SS-03A (Sample #: JCS-454) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil

sample location P020-SS-03, located in the center of the yard at the northern residence, and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-09B (Sample #: JCS-470) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-09 (see above) and later submitted for PCB field screening analysis.

1110 hrs: Background surface soil sample P020-SS-03B (Sample #: JCS-455) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-03 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for background surface soil sample location P020-SS-03 due to refusal.

1115 hrs: Background surface soil sample P020-SS-06A (Sample #: JCS-461) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-06, located at the northeast corner of the southern residence adjacent to the brook, and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-09C (Sample #: JCS-471) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P020-SS-09 (see above) and later submitted for PCB field screening analysis.

1120 hrs: Background surface soil sample P020-SS-06B (Sample #: JCS-462) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-06 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for background surface soil sample location P020-SS-06 due to refusal.

1130 hrs: Background surface soil sample P020-SS-04A (Sample #: JCS-456) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-04, located at the northwest corner of the southern residence, and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-05A (Sample #: JCS-459) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-05, located directly adjacent and to the south of the driveway on the southern residence, and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-07A (Sample #: JCS-463) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-07, located at the southern boundary of the southern residence adjacent to the brook, and later submitted for PCB field screening analysis.

1135 hrs: Background surface soil sample P020-SS-07B (Sample #: JCS-464) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-07 (see above) and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-10A (Sample #: JCS-472) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-10, located in the center of the front yard of the southern residence, and later submitted for PCB field screening analysis.

1140 hrs: Background surface soil sample P020-SS-04B (Sample #: JCS-457) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, background surface soil sample P020-SS-05B (Sample #: JCS-460) was collected with a hand auger at a depth of 6 to 10 inches bgs from surface soil sample location P020-SS-05 (see above) and later submitted for PCB field screening analysis.

Also, background surface soil sample P020-SS-07C (Sample #: JCS-465) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-07 (see above) and later submitted for PCB field screening analysis.

- Background surface soil sample P020-SS-10B (Sample #: JCS-473) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P020-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1145 hrs: Background surface soil sample P020-SS-10C (Sample #: JCS-474) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P020-SS-10 (see above) and later submitted for PCB field screening analysis.
- 1150 hrs: Background surface soil sample P020-SS-04C (Sample #: JCS-458) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P020-SS-04 (see above) and later submitted for PCB field screening analysis.
- 1200 hrs: Equipment rinsate blank sample RB-44 (Sample #: JCW-027; CLP #: A4B16) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- 1235 hrs: Surface soil sample P002-SS-03A (Sample #: JCS-425) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-03, located in a drainage channel behind the house, and later submitted for PCB field screening analysis.
- 1240 hrs: Surface soil sample P002-SS-01A (Sample #: JCS-419) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-01, located on the western boundary by the tree line, and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-03B (Sample #: JCS-426) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-03 (see above) and later submitted for PCB field screening analysis.
- 1242 hrs: Surface soil sample P002-SS-08A (Sample #: JCS-440) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-08, located approximately 75 feet from the house in a low-lying area, and later submitted for PCB field screening analysis.
- 1245 hrs: Surface soil sample P002-SS-03C (Sample #: JCS-427) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-03 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-09A (Sample #: JCS-443) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-09, located directly adjacent to the garage on the west side, and later submitted for PCB field screening analysis.
- 1250 hrs: Surface soil sample P002-SS-01B (Sample #: JCS-420) and surface soil sample field duplicate P002-SS-110B (Sample #: JCS-584) were collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-01 (see above) and later submitted for PCB field screening analysis.
- In addition, surface soil sample P002-SS-08B (Sample #: JCS-441) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-08 (see above) and later submitted for PCB field screening analysis.
- Also, surface soil sample P002-SS-09B (Sample #: JCS-444) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-09 (see above) and later submitted for PCB field screening analysis.
- 1255 hrs: Surface soil sample P002-SS-02A (Sample #: JCS-422) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-

SS-02, located in a low-lying area north of shed, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-09C (Sample #: JCS-445) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-09 (see above) and later submitted for PCB field screening analysis.

1300 hrs: Surface soil sample P002-SS-01C (Sample #: JCS-421) was collected with a hand auger at a depth of 12 to 16 inches bgs from surface soil sample location P002-SS-01 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-02B (Sample #: JCS-423) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-02 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P002-SS-08C (Sample #: JCS-442) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-08 (see above) and later submitted for PCB field screening analysis.

1305 hrs: Surface soil sample P002-SS-02C (Sample #: JCS-424) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06A (Sample #: JCS-434) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-06, located in the center of the yard in a low-lying area, and later submitted for PCB field screening analysis.

1310 hrs: Surface soil sample P002-SS-05A (Sample #: JCS-431) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-05, located directly adjacent to the house at the sump outfall, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06B (Sample #: JCS-435) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-06 (see above) and later submitted for PCB field screening analysis.

1315 hrs: Surface soil sample P002-SS-04A (Sample #: JCS-428) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-04, located adjacent to the utility pole, and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-06C (Sample #: JCS-436) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-06 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P002-SS-07A (Sample #: JCS-437) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-07, located in the northwest corner of the property in a compost pile at the tree line, and later submitted for PCB field screening analysis.

1320 hrs: Surface soil sample P002-SS-04B (Sample #: JCS-429) was collected with a metal scoop at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-05B (Sample #: JCS-432) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-05 (see above) and later submitted for PCB field screening analysis.

1325 hrs: Surface soil sample P002-SS-04C (Sample #: JCS-430) was collected with a metal scoop at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-07B (Sample #: JCS-438) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-07 (see above) and later submitted for PCB field screening analysis.

Also, surface soil sample P002-SS-10A (Sample #: JCS-446) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P002 at surface soil sample location P002-SS-10, located approximately 10 feet from Park Street at the NE corner of the property, and later submitted for PCB field screening analysis.

1330 hrs: Surface soil sample P002-SS-05C (Sample #: JCS-433) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P002-SS-10B (Sample #: JCS-447) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P002-SS-10 (see above) and later submitted for PCB field screening analysis.

1335 hrs: Surface soil sample P002-SS-07C (Sample #: JCS-439) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P002-SS-07 (see above) and later submitted for PCB field screening analysis.

1340 hrs: Surface soil sample P002-SS-10C (Sample #: JCS-448) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P002-SS-10 (see above) and later submitted for PCB field screening analysis.

1355 hrs: Surface soil sample P001-SS-03A (Sample #: JCS-487) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-03, located approximately 20 feet south of the stream, and later submitted for PCB field screening analysis.

1400 hrs: Surface soil sample P001-SS-02A (Sample #: JCS-484) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-02, located west of a manhole cover, and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-09A (Sample #: JCS-503) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-09, located on the southern bank of the stream, 50 feet east of P001-SS-08, and later submitted for PCB field screening analysis.

1405 hrs: Surface soil sample P001-SS-02B (Sample #: JCS-485) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-02 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-03B (Sample #: JCS-488) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-03 (see above) and later submitted for PCB field screening analysis.

1410 hrs: Surface soil sample P001-SS-09B (Sample #: JCS-504) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-09 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-09 due to refusal.

START member Hornok spoke with COR Bosworth via cellphone and discussed the status of sampling to date, field screening data results, residential soil sampling observations, CLP sample shipments, and plan for wetland sampling activities.

1415 hrs: Surface soil sample P001-SS-02C (Sample #: JCS-486) was collected with a hand auger at a depth of 12 to 20 inches bgs from surface soil sample location P001-SS-02 (see above) and later submitted for PCB field screening analysis.

1420 hrs: Surface soil sample P001-SS-06A (Sample #: JCS-496) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-

SS-06, located at the southern boundary of the property near the tree line, and later submitted for PCB field screening analysis.

1425 hrs: Surface soil sample P001-SS-03C (Sample #: JCS-489) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-03 (see above) and later submitted for PCB field screening analysis.

1430 hrs: Surface soil sample P001-SS-04A (Sample #: JCS-490) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-04, located in the center of the yard next to a pine tree, and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-06B (Sample #: JCS-497) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-06 (see above) and later submitted for PCB field screening analysis.

1435 hrs: Surface soil sample P001-SS-04B (Sample #: JCS-491) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-04 (see above) and later submitted for PCB field screening analysis.

1440 hrs: Surface soil sample P001-SS-04C (Sample #: JCS-492) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-04 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-06C (Sample #: JCS-498) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-06 (see above) and later submitted for PCB field screening analysis.

1443 hrs: Surface soil sample P001-SS-07A (Sample #: JCS-499) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-07, located on the southern bank of the stream, and later submitted for PCB field screening analysis.

1450 hrs: Surface soil sample P001-SS-05A (Sample #: JCS-493) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-05, located near the western boundary of the property on the tree line, and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-07B (Sample #: JCS-500) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-07 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-07 due to refusal.

1500 hrs: Surface soil sample P001-SS-05B (Sample #: JCS-494) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-10A (Sample #: JCS-505) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-10, located on the south side of stream at Kocher Drive and Park St intersection, and later submitted for PCB field screening analysis.

1505 hrs: Surface soil sample P001-SS-10B (Sample #: JCS-506) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-10 (see above) and later submitted for PCB field screening analysis.

1510 hrs: Surface soil sample P001-SS-05C (Sample #: JCS-495) was collected with a hand auger at a depth of 12 to 18 inches bgs from surface soil sample location P001-SS-05 (see above) and later submitted for PCB field screening analysis.

In addition, surface soil sample P001-SS-10C (Sample #: JCS-507) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-10 (see above) and later submitted for PCB field screening analysis.

- 1520 hrs: Surface soil sample P001-SS-08A (Sample #: JCS-501) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-08, located on the southern bank of the stream, 50 feet east of P001-SS-07, and later submitted for PCB field screening analysis.
- 1530 hrs: Surface soil sample P001-SS-01A (Sample #: JCS-481) was collected with a metal scoop at a depth of 0 to 6 inches bgs from residential property P001 at surface soil sample location P001-SS-01, located directly adjacent to the residence beneath the former location of a recently demolished deck, and later submitted for PCB field screening analysis.
- 1535 hrs: Surface soil sample P001-SS-08B (Sample #: JCS-502) was collected with a hand auger at a depth of 6 to 10 inches bgs from surface soil sample location P001-SS-08 (see above) and later submitted for PCB field screening analysis. No 'C' interval was collected for surface soil sample location P001-SS-08 due to refusal.
- 1540 hrs: Surface soil sample P001-SS-01B (Sample #: JCS-482) was collected with a hand auger at a depth of 6 to 12 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1550 hrs: Surface soil sample P001-SS-01C (Sample #: JCS-483) was collected with a hand auger at a depth of 12 to 24 inches bgs from surface soil sample location P001-SS-01 (see above) and later submitted for PCB field screening analysis.
- 1600 hrs: START Team Members reviewed and turned in completed surface soil data sheets for each sample location.
Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 1630 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

16 April 2013 (Tuesday) – Sediment Sampling

Weather: Partly cloudy, 45 to 50 °F

- 0730 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Christine Scesny, and Sharp arrived at the Jard property.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, working near water, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously but will be monitored) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
START Team established decontamination area and conduct decontamination of non-sample SD-50A (Sample #: JCS-556) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0850 hrs: Sediment sample SD-50B (Sample #: JCS-557) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0855 hrs: Sediment sample SD-50C (Sample #: JCS-558) was collected using a hand auger at a depth of 12 dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be

decontaminated after the collection of each sample, and prior to use for the collection of other samples.

- 0830 hrs: START members Bitzas and Hornok began documenting previously mapped/delineated wetland area located west of Park Street. In addition, START members Kelly and Sharp began marking sediment sample locations, first in the background wetland located north of the Jard property and then in the area west of Park Street. Additional START personnel mobilized to the background wetland located north of the Jard property to begin sampling.
- 0845 hrs: Sediment to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0930 hrs: Sediment sample SD-51A (Sample #: JCS-559) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0940 hrs: Sediment sample SD-51B (Sample #: JCS-560) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0945 hrs: Sediment sample SD-51C (Sample #: JCS-561) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0950 hrs: Sediment sample SD-52A (Sample #: JCS-562) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 0955 hrs: Sediment sample SD-52B (Sample #: JCS-563) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1000 hrs: Sediment sample SD-52C (MS/MSD) (Sample #: JCS-564) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PEM) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1020 hrs: Sediment sample SD-53A (Sample #: JCS-565) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1025 hrs: Sediment sample SD-53B (Sample #: JCS-566) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1030 hrs: Sediment sample SD-53C (Sample #: JCS-567) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1100 hrs: Sediment sample SD-54A (Sample #: JCS-568) was collected using a metal scoop at a depth 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1735 hrs: Sediment sample SD-18B (Sample #: JCS-509) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1800 hrs: START Team Members reviewed and turned in completed sediment sample data sheets for each sample location. Note that samples were generally collected in sequence from downstream to upstream locations. However, due to the limited water flow and direct flow path between sample locations, there does not appear to be any potential cross-contamination influence as a of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.

- 1105 hrs: Sediment sample SD-54B (Sample #: JCS-569) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1110 hrs: Sediment sample SD-54C (Sample #: JCS-570) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1125 hrs: Sediment sample SD-55A (Sample #: JCS-571) was collected using a metal scoop at a depth of 0 to 6 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1130 hrs: Sediment sample SD-55B (Sample #: JCS-572) was collected using a hand auger at a depth of 6 to 12 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1135 hrs: Sediment sample SD-55C (Sample #: JCS-573) was collected using a hand auger at a depth of 12 to 24 inches bgs from a background wetland (PSS) area located north of the Jard property and later submitted for PCB field screening analysis.
- 1315 hrs: Sediment sample SD-48A (Sample #: JCS-553) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from an area directly adjacent to the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis. Note that samples are being collected from downstream to upstream locations. However, due to the limited water and flow, there does not appear to be any potential cross-contamination influence as a result of stirring up the sediment at adjacent sampling locations.
- 1320 hrs: Sediment sample SD-48B (Sample #: JCS-554) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from an area directly adjacent to the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
In addition, sediment sample SD-49A (Sample #: JCS-555) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1325 hrs: Sediment sample SD-47A (Sample #: JCS-551) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis..
- 1330 hrs: Sediment sample SD-46A (Sample #: JCS-550) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1335 hrs: Sediment sample SD-45A (Sample #: JCS-549) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
In addition, sediment sample SD-47B (Sample #: JCS-552) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.
- 1340 hrs: Sediment sample SD-43A (Sample #: JCS-547) was collected using a metal scoop at a depth of 0 to 6 inches below the sediment-water interface from the unnamed stream located west of

the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.

In addition, sediment sample SD-44A (Sample #: JCS-548) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the unnamed stream located west of the Jard property and which drains the wetland area on property P030. The sample was later submitted for PCB field screening analysis.

- 1344 hrs: Sediment sample SD-42A (Sample #: JCS-545) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1349 hrs: Sediment sample SD-42B (Sample #: JCS-546) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1350 hrs: Sediment sample SD-41A (Sample #: JCS-544) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1355 hrs: Sediment sample SD-40A (Sample #: JCS-543) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1405 hrs: Sediment sample SD-39A (Sample #: JCS-542) was collected using a hand auger at a depth of 0 to 8 inches below the sediment-water interface from the stream that runs behind property P041 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1445 hrs: Sediment sample SD-38A (Sample #: JCS-541) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P005 located west of the Jard property on Park Street. The sample was later submitted for PCB field screening analysis.
- 1448 hrs: Sediment sample SD-36A (Sample #: JCS-538) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P006 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1450 hrs: Sediment sample SD-37A (Sample #: JCS-540) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through residential property P005 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1452 hrs: Sediment sample SD-36B (Sample #: JCS-539) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the stream that runs through residential property P006 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.
- 1455 hrs: Sediment sample SD-35A (Sample #: JCS-537) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property P032 and Duck Pond located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis. Weather conditions change from light to heavy rain.
- 1500 hrs: Sediment sample SD-34A (Sample #: JCS-536) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property

P032 and Duck Pond located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1505 hrs: Sediment sample SD-32A (Sample #: JCS-534) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

In addition, sediment sample SD-33A (Sample #: JCS-535) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the stream that runs through property P031 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1510 hrs: Sediment sample SD-31A (Sample #: JCS-532) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1513 hrs: Sediment sample SD-31B (Sample #: JCS-533) was collected using a hand auger at a depth of 12 to 18 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1515 hrs: Sediment sample SD-30A (Sample #: JCS-530) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1520 hrs: Sediment sample SD-30B (Sample #: JCS-531) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the pond that exists on residential property P011 located west of the Jard property along Park Street. The sample was later submitted for PCB field screening analysis.

1540 hrs: Sediment sample SD-19A (Sample #: JCS-510) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

In addition, sediment sample SD-20A (Sample #: JCS-512) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

1542 hrs: Sediment sample SD-19B (Sample #: JCS-511) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

1545 hrs: Sediment sample SD-20B (Sample #: JCS-513) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

In addition, sediment sample SD-25A (Sample #: JCS-520) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

1550 hrs: Sediment sample SD-25B (Sample #: JCS-521) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the

- Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1555 hrs: Sediment sample SD-26A (Sample #: JCS-522) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1600 hrs: Sediment sample SD-26B (Sample #: JCS-523) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1630 hrs: Equipment rinsate blank sample RB-30 (Sample #: JCW-028; CLP #: A4B54) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with sediment sampling activities.
- 1650 hrs: Sediment sample SD-22A (Sample #: JCS-515) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1700 hrs: Sediment sample SD-21A (Sample #: JCS-514) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1703 hrs: Sediment sample SD-23A (Sample #: JCS-516) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1705 hrs: Sediment sample SD-23B (Sample #: JCS-517) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-28A (Sample #: JCS-526) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1706 hrs: Sediment sample SD-24A (Sample #: JCS-518) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1710 hrs: Sediment sample SD-24B (Sample #: JCS-519) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- In addition, sediment sample SD-28B (Sample #: JCS-527) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- Also, sediment sample SD-29A (Sample #: JCS-528) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.

- 1715 hrs: Sediment sample SD-27A (Sample #: JCS-524) was collected using a hand auger at a depth of 0 to 12 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1717 hrs: Sediment sample SD-27B (Sample #: JCS-525) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1720 hrs: Sediment sample SD-29B (Sample #: JCS-529) was collected using a hand auger at a depth of 12 to 24 inches below the sediment-water interface from the wetland area located west of the Jard property on property P030. The sample was later submitted for PCB field screening analysis.
- 1730 hrs: Sediment sample SD-18A (Sample #: JCS-508) was collected using a hand auger at a depth of 0 to result of the sampler stirring up the sediment from adjacent sampling locations.
- 1830 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

17 April 2013 (Wednesday) – Site documentation and Sample Preparation/Shipping

Weather: Partly cloudy, 45 to 50 °F

- 0700 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Scesny, and Sharp arrived at the Jard property. EPA Chemist Clifford also arrived at site. Performance evaluation samples PE-ASX00183 (Sample #: JCS-477; CLP #: A4B55), PE-ASX00184 (Sample #: JCS-478; CLP #: A4B56), PE-AS1507 (Sample #: JCS-479; CLP #: A4B57), PE-AS1487 (Sample #: JCS-480; CLP #: A4B58), PE-AS1430 (Sample #: JCS-575; CLP #: A4B77), PE-ASX0180 (Sample #: JCS-576; CLP #: A4B78), PE-ASX0181 (Sample #: JCS-578; CLP #: A4B99), PE-AS1508 (Sample #: JCS-579; CLP #: A4C00), PE-ASX0182 (Sample #: JCS-581; CLP #: A4C20), PE-AS1488 (Sample #: JCS-582; CLP #: A4C21), PE-ASX0179 (Sample #: JCS-586; CLP #: A4C31), and PE-AS1431 (Sample #: JCS-587; CLP #: A4C32), were collected for CLP Aroclor analysis. Sample aliquots for PCB field screening, collected to date, were transferred to EPA chemist Clifford for processing and PCB field screening analyses.
- 0745 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site personnel and reviewed physical hazards (uneven terrain), chemical hazards (PCB containing sediment), and biological hazards. Personnel signed the HASP. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.
- START personnel continued to complete sample documentation activities, to classify sample matrix materials using the modified Burmiester soil classification, to prepare samples and packaging for environmental and dangerous good shipping, and assist with field screening remaining sample aliquots. START geologist Kelly continued to conduct classification of sample matrix materials using the modified Burmiester soil classification and to prepare sample aliquots for field screening.
- In addition, START Members Hornok and Kelly continued discussions from the previous evening, review and selection of samples to be prepared and shipped for CLP Aroclor analyses. The determination was based on, but not limited to the following; field screening result, PCB Aroclor detected via field screening (i.e. 1242, 1254, 1260, etc.), spatial location, depth, sample matrix composition, available sample volume, available similar background sample matrix, and EPA's request that at least one sample from each residential property be analyzed through CLP.

screening results and field observations and were to be combined with samples shipped under TR #: 1-041713-120513-0009 AB #: 5141 2418 0802, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.

TR #: 1-041713-120513-0009 AB #: 5141 2418 0802, five source samples including one field duplicate, and one MS/MSD; plus two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-041713-120340-0008, Master AB #: 5141 2418 0754, to form a complete SDG.

TR #: 1-041713-120703-0010, Master AB #: 5141 2418 0700, two aqueous equipment rinsate blank samples for PCB Aroclor analysis.

1820 hrs: Sample selection/comparison, aliquots, shipping/packaging/delivery,
START personnel secured IDW drums, secured the site and departed the Jard property.

18 April 2013 (Thursday) – Site documentation and Sample Preparation/Shipping

Weather: Partly cloudy, 45 to 50 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Scesny, and Sharp arrived at the Jard property.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm.

START Team established decontamination area and conduct decontamination of non-dedicated equipment. Non-dedicated equipment (augers, metal scoops, etc.) will be decontaminated after the collection of each sample, and prior to use for the collection of other samples.

Due to a paperwork issues with the Dangerous Goods Shipments dropped at FedEx on 17 April 2013, START Member Hornok left site and proceeded to the FedEx office, located in Menands, New York to determine what the issue was that caused rejection of the shipments and to retrieve the samples for re-icing and repackaging of the samples, and resubmit the shipment to FedEx.

0800 hrs: Background surface soil sample P020-SS-11A (Sample #: JCS-589) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-11, located on the northwest corner of the property adjacent to the stream. Due to sample matrix similarity, this sample was not submitted for analysis.

START personnel continued to complete sample documentation activities, to classify sample matrix materials using the modified Burmiester soil classification, to prepare samples and packaging for environmental and dangerous good shipping.

0815 hrs: Background surface soil sample P020-SS-12A (Sample #: JCS-590) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample location P020-SS-12, located at the base of a pile behind the residence. Due to sample matrix similarity, this sample was not submitted for analysis.

0845 hrs: Background surface soil sample P020-SS-14A (Sample #: JCS-592) was collected with a hand auger at a depth of 0 to 6 inches bgs from residential property P020 at surface soil sample

- location P020-SS-14, located along the western property boundary within a tall grassy area. Due to sample matrix similarity, this sample was not submitted for analysis.
- 0850 hrs: Background surface soil sample P020-SS-13A (Sample #: JCS-591) was collected with a hand auger at a depth of 0 to 12 inches bgs from residential property P020 at surface soil sample location P020-SS-13, located at the northwestern property boundary. Due to sample matrix similarity, this sample was not submitted for analysis.
- 0900 hrs: Background surface soil sample P020-SS-15A (Sample #: JCS-583) was collected with a hand auger at a depth of 0 to 12 inches bgs from residential property P020 at surface soil sample location P020-SS-15, located directly adjacent to the brook on the southern property boundary, and later submitted for PCB field screening analysis.
- 1015 hrs: Equipment rinsate blank sample RB-45 (Sample #: JCW-029; CLP #: A4C19) was collected from hand auger sampling equipment (augers, scoops, etc.) associated with surface soil sampling activities.
- START Team Members reviewed and turned in completed surface soil data sheets for each sample location.
- 1030 hrs: START Member Hornok returned to site with Dangerous Goods Shipment (TR #: 1-041713-114538-0006, Master AB #: 5141 2418 0938; and TR #: 1-041713-120340-0008, Master AB #: 5141 2418 0960) which had been rejected for transport at the FedEx office, located in Menands, New York on 17 April 2013. Due to a dangerous goods paperwork shipping interpretation error, this shipment was returned and shipped on 18 April 2013 with the same instructions (see below).
- 1730 hrs: START personnel segregated sample aliquots that were not selected for CLP analyses into two groups; those samples that EPA field screening results were non-detect and those which field screening results indicated detectable level of PCBs. Samples not being sent for CLP analysis which were had non-detect levels of PCBs were deposited on the western slope of the soil source pile located on the eastern portion of the Jard property. Samples not being sent for CLP analysis which contained detectable levels of PCBs via EPA field screening analysis were deposited of in 55-gallon IDW drums for off-site disposal.
- 1840 hrs: START personnel completed sample shipment preparation, organized and packaged traffic reports. START member Kelly left the site and proceeded to deliver samples and paperwork to FedEx, located in Menands, New. Below is a summary of the traffic reports (TR), Airbill numbers (AB), and samples sent to the CLP Organics Laboratory (Chemtech Consulting Group) for PCB Aroclor analysis:
- TR #: 1-041713-114538-0006, Master AB #: 5141 2418 0938, were reshipped to be combined with samples shipped under TR #: 1-041713-115310-0007 AB #: 5141 2418 0743, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.
- TR #: 1-041713-120340-0008, Master AB #: 5141 2418 0960, were reshipped to be combined with samples shipped under TR #: 1-041713-120513-0009 AB #: 5141 2418 0802, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.
- TR #: 1-041813-110619-0012 AB #: 5141 2418 0835, 18 surface soil samples including one field duplicate, and one MS/MSD; plus two performance evaluation samples for PCB Aroclor analysis.
- TR #: 1-041813-120158-0013 AB #: 5141 2418 0857, 18 surface soil samples including one field duplicate, and one MS/MSD; plus two performance evaluation samples for PCB Aroclor analysis.
- TR #: 1-041813-143209-0014, Master AB #: 5141 2418 1018, eight sediment samples for PCB Aroclor analysis. These eight samples were shipped as dangerous goods due to field

screening results and field observations and were to be combined with samples shipped under TR #: 1-041813-143216-0015, Master AB #: 5141 2418 1030, to constitute a complete sample delivery group (SDG) with appropriate quality assurance/quality control (QA/QC) samples.

TR #: 1-041813-143216-0015, Master AB #: 5141 2418 1030, 10 sediment samples including one field duplicate, and one MS/MSD; plus one aqueous rinsate blank sample and two performance evaluation samples for PCB Aroclor analysis. Samples from this TR were to be combined with samples shipped under TR #: 1-041813-143209-0014, Master AB #: 5141 2418 1018, to form a complete SDG.

TR #: 1-041813-160255-0017, Master AB #: 5141 2418 1040, nine sediment samples including one field duplicate and one MS/MSD; nine surface soil samples, plus two performance evaluation samples for PCB Aroclor analysis.

TR #: 1-041813-165405-0018, which included seven surface soil samples PCB Aroclor analysis at the US EPA Region 1 Office of Environmental Measurement and Evaluation (OEME) New England Regional Laboratory (NERL).

TR #: 1-041713-154720-0011, which contains the sample aliquots for all samples sent to the CLP Laboratory for PCB Aroclor analysis. These samples are to be stored at UP EPA OEME NERL pending receipt of the CLP analytical results, and a subset will be sent for PCB congener analysis.

1850 hrs: START personnel secured IDW drums, secured the site and departed the Jard property.

19 April 2013 (Friday) – Site Restoration and Documentation

Weather: Partly cloudy, 45 to 50 °F

0700 hrs: START members Kelly, Hornok, Bitzas, Dupree, Robinson, Saylor, Scesny, and Sharp arrived at the Jard property.

0715 hrs: START HSC Kelly reviewed the site HASP and conducted a tailgate health and safety meeting for all on-site START personnel, including reviews of the physical hazards (uneven terrain, trips-slips-falls, heavy lifting, traffic concerns, potential adverse weather conditions), chemical hazards (PCBs), Radiation (Not encountered previously) and biological hazards (ticks, poison ivy, thorn bushes, snakes, dogs, animals). Personnel reviewed and signed the HASP documentation, as needed. START members completed calibration checks on air monitoring instrument; MultiRAE Plus, LEL, O₂, H₂S, CO, and PID meter. Background ambient readings: LEL = 0%; O₂ = 20.9%; H₂S = 0 ppm; CO = 0 ppm; and VOC = 0 ppm. START Team established decontamination area.

0745 hrs: START personnel continued segregated sample aliquots that were not selected for CLP analyses into two groups; samples that EPA field screening results were non-detect and those which field screening results indicated detectable level of PCBs. Samples not being sent for CLP analysis which were had non-detect levels of PCBs were deposited on the western slope of the soil source pile located on the eastern portion of the Jard property. Samples not being sent for CLP analysis which contained detectable levels of PCBs via EPA field screening analysis were deposited of in 55-gallon IDW drums for off-site disposal.

0845 hrs: START personnel completed segregation of samples.

0915 hrs: START members Dupree and Scesny, Sharp and Saylor departed site to return to START office. START members Sharp and Saylor departed site to drop Congener samples at EPA NERL and then return to START office.

START members Hornok and Bitzas documented wetland locations west of Park Street.

Kelly and Robinson documented wetland and verified that all sample locations were back-filled and markers removed from residential properties locations north of the Jard property. Based on earlier discussions with COR Bosworth, locations markers were left within wetland

COPY

CHAIN OF CUSTODY RECORD

USEPA CLP Organics COC (LAB COPY)

Date Shipped: 4/18/2013

Carrier Name: FedEx

Airbill No: 5141 2418 1030

Case #: 43395

Cooler #: EPASB014

SDG# A4C19

No: 1-041813-143216-0015

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4C09	Sediment/ START	Grab	CLP PCBs(21)	814 (4 C) (1)	JCS-551	04/16/2013 13:25	Original Documents are included in CSF 741899 Copy	
A4C10	Sediment/ START	Grab	CLP PCBs(21)	816 (4 C) (1)	JCS-550	04/16/2013 13:30		
A4C11	Sediment/ START	Grab	CLP PCBs(21)	818 (4 C) (1)	JCS-510	04/16/2013 15:40		
A4C12	Sediment/ START	Grab	CLP PCBs(21)	820 (4 C) (1)	JCS-515	04/16/2013 16:50		
A4C13	Sediment/ START	Grab	CLP PCBs(21)	822 (4 C) (1)	JCS-516	04/16/2013 17:03		
A4C14	Sediment/ START	Grab	CLP PCBs(21)	824 (4 C) (1)	JCS-520	04/16/2013 15:45		
A4C15	Sediment/ START	Grab	CLP PCBs(21), CLP PCBs(21)	826 (4 C), 827 (4 C) (2)	JCS-526	04/16/2013 17:05		
A4C16	Sediment/ START	Grab	CLP PCBs(21)	829 (4 C) (1)	JCS-529	04/16/2013 17:20		
A4C17	Sediment/ START	Grab	CLP PCBs(21)	831 (4 C) (1)	JCS-512	04/16/2013 15:40		
A4C18	Sediment/ START	Grab	CLP PCBs(21)	834 (4 C) (1)	JCS-580	04/16/2013 13:25		
A4C19	Rinsate Water/ START	Grab	CLP PCBs(21), CLP PCBs(21)	836 (4 C), 837 (4 C) (2)	JCW-029	04/18/2013 10:15		

Sample(s) to be used for Lab QC: A4C15 - Special Instructions: Please combine with samples shipped under FedEx Airbill #: 5141 2418 1018, COC #: 1-041813-143209-0014 to form one sample delivery group.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

N/A

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samplrs	C. Horn	4/18/13	ADILL NO 5141 2418 1030	4/18/13	1530						
						Samplrs	ADILL NO 5141 2418 1030		Palak Shih	4/18/13	935

Except: A4C19 all samples are

in STA# A4B99

Temp 5°C

COPY

SDH # A4C19

CHAIN OF CUSTODY RECORD

No: 1-041813-143216-0015

Lab: ChemTech Consulting Group

Case #: 43395
Cooler #: EPASB014

Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

[illegible]

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

N/A

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	G-tunn	4/18/13	Bill No S141 2418 030	9/18/13	1530						
						Samples	Bill No. S141 2418 030		Paldic Shih	4/18/13	93

Temp 5°C

COPY

USEPA CLP Organics COC (LAB COPY)

CHAIN OF CUSTODY RECORD

Date Shipped: 4/18/2013

Carrier Name: FedEx

Airbill No: 5141 2418 1040

Case #: 43395

Cooler #: SB100/SB010

No: 1-041813-160255-0017

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	For Lab Use Only
A4C22	Sediment/ START	Grab	CLP PCBs(21)	842 (4 C) (1)	JCS-559	04/16/2013 09:30		
A4C23	Sediment/ START	Grab	CLP PCBs(21)	844 (4 C) (1)	JCS-556	04/16/2013 08:45		
A4C24	Sediment/ START	Grab	CLP PCBs(21)	846 (4 C) (1)	JCS-561	04/16/2013 09:45		
A4C25	Sediment/ START	Grab	CLP PCBs(21), CLP PCBs(21)	848 (4 C), 849 (4 C) (2)	JCS-566	04/16/2013 10:25		
A4C26	Sediment/ START	Grab	CLP PCBs(21)	851 (4 C) (1)	JCS-570	04/16/2013 11:10		
A4C27	Sediment/ START	Grab	CLP PCBs(21)	853 (4 C) (1)	JCS-564	04/16/2013 10:00		
A4C28	Sediment/ START	Grab	CLP PCBs(21)	855 (4 C) (1)	JCS-514	04/16/2013 17:00		
A4C29	Sediment/ START	Grab	CLP PCBs(21)	857 (4 C) (1)	JCS-565	04/16/2013 10:20		
A4C30	Sediment/ START	Grab	CLP PCBs(21)	860 (4 C) (1)	JCS-585	04/16/2013 11:10		
A4C31	Soil/ START	Grab	CLP PCBs(21)	862 (4 C) (1)	JCS-586	04/17/2013 07:00		
A4C32	Soil/ START	Grab	CLP PCBs(21)	863 (4 C) (1)	JCS-587	04/17/2013 07:00		
A4C33	Soil/ START	Grab	CLP PCBs(21)	864 (4 C) (1)	JCS-341	04/11/2013 12:05		

Sample(s) to be used for Lab QC: A4C25

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Shipment for Case Complete? **Y**

Samples Transferred From Chain of Custody #

TEMP: 4°C

N/A

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	Steph R	4/18/13	Airbill # 5141 2418 1040	4/18/13	1640						
						Samples			Airbill # 5141 2418 1040	4/19/13	935

Lab Phone: 908-789-8900

3 COPY)

[Handwritten signature]

[illegible]

Temp: $t^{\circ}\text{C}$

N/A

Analysis Key: CLP PCBs=SOM01.2 Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time		Items/Reason	Relinquished By	Date	Received by	Date	Time
Samples	Steph R	4/18/13	Airbill # 514124181040	4/18/13	1640							
							Samples	Airbill # 514124181040		John TENGRO	4/19/13	935

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2

*Jard Company
Weston*

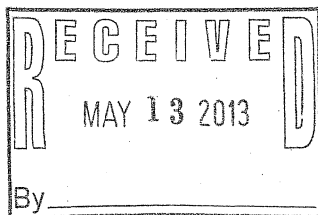
DG/ESAY

LABORATORY NAME : <u>CHEMTECH CONSULTING GROUP, INC.</u>	
CITY / STATE : <u>MOUNTAINSIDE, NJ</u>	
CASE NO : <u>43395</u>	SDG NO : <u>A4C19</u>
SDG NOs TO FOLLOW <u>N/A</u>	<u>N/A</u>
MOD. REF. NO. : <u>N/A</u>	<u>N/A</u>
CONTRACT NO : <u>EPW11030</u>	
SOW NO : <u>SOM 01.2</u>	

MAY 10 2013

All documents delivered in the Complete SDG File (CSF) must be original documents where possible.

	PAGE NOS:		CHECK LAB	USEPA
	FROM	TO		
1. Inventory Sheet (DC-2) (Do not number)				<input checked="" type="checkbox"/>
2. SDG Narrative	1	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. SDG Cover Sheet/Traffic Report	7	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. <u>Trace Volatiles Data</u>				
a. <u>QC Summary</u>				
Deuterated Monitoring Compound Recovery (Form II VOA-1 and VOA-2)	NA	NA	<input checked="" type="checkbox"/>	<u>NA</u>
Matrix Spike/Matrix Spike Duplicate Recover (Form III VOA) (if requested by USEPA Region)	NA	NA	<input checked="" type="checkbox"/>	
Method Blank Summary (Form IV VOA)	NA	NA	<input checked="" type="checkbox"/>	
GC/MS Instrument Performance Check (Form V VOA)	NA	NA	<input checked="" type="checkbox"/>	
Internal Standard Area and RT Summary (Form VIII VOA)	NA	NA	<input checked="" type="checkbox"/>	
b. <u>Sample Data</u>				
TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)				
Tentatively Identified Compounds (Form I VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass Spectra of all reported TICs with three best library matches				
c. <u>Standards Data (All Instruments)</u>				
Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)	NA	NA	<input checked="" type="checkbox"/>	
RICs and Quantitation Reports for all Standards				
Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)				
RICs and Quantitation Reports for all Standards				
d. <u>Raw/Quality Control</u>				
BFB	NA	NA	<input checked="" type="checkbox"/>	
Blank Data	NA	NA	<input checked="" type="checkbox"/>	
Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)	NA	NA	<input checked="" type="checkbox"/>	



Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

e. Trace SIM Data (Place at the end of the Trace Volatiles Section

[Form I VOA-SIM; Form II VOA-SIM1 and VOA-SIM2; Form IV-VOA-SIM; Form VI VOA-SIM; Form VII VOA-SIM; Form VIII VOA-SIM; and all raw data for QC, Samples, and Standards.]

NA NA - ~~NA~~

5. Low/Med Volatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II VOA-1, VOA-2, VOA-3, VOA-4)

NA NA - -

Matrix Spike/Matrix Spike Duplicate Recovery (Form III VOA-1 and VOA-2) (if requested by USEPA Region)

NA NA - -

Method Blank Summary (Form IV VOA)

NA NA - -

GC/MS Instrument Performance Check (Form V VOA)

NA NA - -

Internal Standard Area and RT Summary (Form VIII VOA)

NA NA - -

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I VOA-1 and VOA-2)

- -

Tentatively Identified Compounds (Form I VOA-TIC)

- -

Reconstructed total ion chromatograms (RIC) for each sample

- -

For each sample:

Raw Spectra and background-subtracted mass spectra of target compounds identified

- -

Quantitation reports

- -

Mass Spectra of all reported TICs with three best library matches

- -

c. Standards Data (All Instruments)

NA NA

Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3)

- -

RICs and Quantitation Reports for all Standards

- -

Continuing Calibration Data (Form VII VOA-1, VOA-2, VOA-3)

- -

RICs and Quantitation Reports for all Standards

- -

d. Raw/Quality Control (QC) Data

BFB

NA NA - -

Blank Data

NA NA - -

Matrix Spike/Matrix Spike Duplicate Data (if requested by USEPA Region)

NA NA - -

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

6. Semivolatiles Data

a. QC Summary

Deuterated Monitoring Compound Recovery (Form II SV-1, SV-2, SV-3, SV-4)

NA	NA	-	NA
----	----	---	----

Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III SV-1 and SV-2) (if requested by USEPA Region)

NA	NA	-	
----	----	---	--

Method Blank Summary (Form IV SV)

NA	NA	-	
----	----	---	--

GC/MS Instrument Performance Check (Form V SV)

NA	NA	-	
----	----	---	--

Internal Standard Area and RT Summary (Form VIII SV-1 and SV-2)

NA	NA	-	
----	----	---	--

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I SV-1 and SV-2)

NA	NA		
----	----	--	--

Tentatively Identified Compounds (Form I SV-TIC)

--	--	--	--

Reconstructed total ion chromatograms (RIC) for each sample

--	--	--	--

For each sample:

NA	NA		
----	----	--	--

Raw Spectra and background-subtracted mass spectra of target compounds

		-	
--	--	---	--

Quantitation reports

--	--	--	--

Mass Spectra of TICs with three best library matches

--	--	--	--

GPC chromatograms (if GPC is r

--	--	--	--

c. Standards Data (All Instruments)

NA	NA		
----	----	--	--

Initial Calibration Data (Form VI SV-1, SV-2, SV-3)

		-	
--	--	---	--

RICs and Quantitation

--	--	--	--

Continuing Calibration Data (Form VII SV-1, S

--	--	--	--

RICs and Quantitation Reports for all Standards

--	--	--	--

d. Raw (QC)Data

DFTPP

NA	NA	-	
----	----	---	--

Blank Data

NA	NA	-	
----	----	---	--

MS/MSD Data (if requested by USEPA Region)

NA	NA	-	
----	----	---	--

e. Raw GPC Data

NA	NA	-	
----	----	---	--

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Semivolatiles SIM Data

[Form I SV-SIM; Form II SV-SIM1 and SV-SIM2; Form III-SV-SIM1 and SV-SIM2 (if required; Form IV SV-SIM; Form VI SV-SIM; Form VII SV-SIM; Form VIII SV-SIM1 and SV-SIM2; and all raw data for QC, Samples, and Standards.]

NA NA - NA

7. Pesticides Data

a. QC Summary

Surrogate Recovery Summary (Form II PEST-1 and PEST-2)

NA NA - -

Matrix Spike/Matrix Spike Duplicate Recovery Summary (Form III PEST-1 and PEST-2)

NA NA - -

Laboratory Control Sample Recovery (Form III PEST-3 and PEST-4)

NA NA - -

Method Blank Summary (Form IV PEST)

NA NA - -

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I PEST)

NA NA - -

Chromatograms (Primary Column)

NA NA - -

Chromatograms from second GC column confirmation

NA NA - -

GC Integration report or data system printout

NA NA - -

Manual work sheets

NA NA - -

For Pesticides by GC/MS

NA NA - -

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

NA NA - -

c. Standards Data

NA NA - -

Initial Calibration of Single Component Analytes (Form VI PEST-1 and PEST-2)

NA NA - -

Toxaphene Initial Calibration (Form VI PEST-3 and PEST-4)

NA NA - -

Analyte Resolution Summary (Form VI PEST-5, per column)

NA NA - -

Performance Evaluation Mixture (Form VI PEST-6)

NA NA - -

Individual Standard Mixture A (Form VI PEST-7)

NA NA - -

Individual Standard Mixture B (Form VI PEST-8)

NA NA - -

Individual Standard Mixture C (Form VI PEST-9 and PEST-10)

NA NA - -

Calibration Verification Summary (Form VII PEST-1)

NA NA - -

Calibration Verification Summary (Form VII PEST-2)

NA NA - -

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Calibration Verification Summary (Form VII PEST-3)

Calibration Verification Summary (Form VII PEST-4)

Analytical Sequence (Form VIII PEST)

Florisil Cartridge Check (Form IX PEST-1)

Pesticide GPC Calibration (Form IX PEST-2)

Identification Summary for Single Component Analytes (Form X PEST-1)

Identification Summary for Toxaphene Form X PEST-2)

Chromatograms and data system printouts

A printout of Retention Times and corresponding peak areas or peak heights

d. Raw QC Data

Blank Data

NA NA -

Matrix Spike/Matrix Spike Duplicate Data

NA NA -

Laboratory Control Sample

NA NA -

e. Raw GPC Data

NA NA -

f. Raw Florisil Data

NA NA -

8. Aroclor Data

a. QC Summary

Surrogate Recovery Summary (Form II ARO-1 and ARO-2)

12 13 ✓ ✓

Matrix Spike/Matrix Spike Duplicate Summary (Form III ARO-1 and ARO-2)

14 15 ✓ ✓

Laboratory Control Sample Recovery (Form III ARO-3 and ARO-4)

16 17 ✓ ✓

Method Blank Summary (Form IV ARO)

NA NA -

b. Sample Data

TCL Results - Organics Analysis Data Sheet (Form I ARO)

18 109 ✓ ✓

Chromatograms (Primary Column)

NA NA - ✓

Chromatograms from second GC column confirmation

NA NA - ✓

GC Integration report of data system printout

NA NA - ✓

Manual work sheets

NA NA - NA

For Aroclors by GC/MS

NA NA - NA

request
5/24/13
rcvd
5/29/13
JG

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)

N/A

c. Standards Data

100

324

Aroclors Initial Calibration (Form VI ARO-1, ARO-2, and ARO-3)

✓

✓

Calibration Verification Summary (Form VII ARO-1)

✓

✓

Analytical Sequence (Form VIII ARO)

✓

✓

Identification Summary for Multicomponent Analytes (Form X ARO)

✓

✓

Chromatograms and data system printouts

✓

✓

A printout of Retention Times and corresponding peak areas or peak heights

✓

✓

d. Raw QC Data

Blank Data

325

354

✓

✓

Matrix Spike/Matrix Spike Duplicate Data

355

362

✓

✓

Laboratory Control Sample (LCS) Data

363

374

✓

✓

e. Raw GPC Data (if performed)

NA

NA

—

N/A

9. Miscellaneous Data

Original preparation and analysis forms or copies of preparation and analysis logbook pages

375

453

✓

✓

Internal sample and sample extract transfer chain-of-custody records

467

470

✓

✓

Screening records

NA

NA

—

N/A

All instrument output, including strip charts from screening activities (describe or list)

10. EPA Shipping/Receiving Documents

Airbills (No. of shipments 3)

454

456

✓

✓

Chain of Custody Records

457

460

✓

✓

Sample Tags

473

477

✓

✓

Sample Log-in Sheet (Lab & DC-1)

461

466

✓

✓

Miscellaneous Shipping/Receiving Records (describe or list)

Evidence Audit Photocopy

**ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET
FORM DC-2**

CASE NO : 43395	SDG NO : A4C19	SDG NOs TO FOLLOW : N/A
N/A	N/A	MOD. REF. NO : N/A

11. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)

Sample Transfer	467	470	✓	✓
-----------------	-----	-----	---	---

12. Other Records (describe or list)

Telephone Communication Log	NA	NA	-	NA
PE Instructions	471	472	✓	✓

13. Comments

Completed by:
(CLP Lab)

[Signature]
(Signature)

Nimisha Pandya
(Printed Name/Title)

05/09/13
(Date)

Verified by:
(CLP Lab)

[Signature]
(Signature)

Himanshu Prujapati
(Printed Name/Title)

05/09/13
(Date)

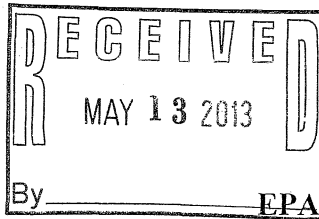
Audited by:
(USEPA)
Weston

[Signature]
(Signature)

John Burton / Technical Mgr
(Printed Name/Title)

5/22/13
(Date)

Evidence Audit Photocopy

COPY

COMPLETE SDG FILE
RECEIPT / TRANSFER FORM

Site: Jerd Company Inc.

TDD: 12-10-0008

TASK: 0850

Case: 43395SDG: A4C19

Receipt Date	Received By : Name	Init.	Affiliation	CSF Activity	Custody Seals Present / Intact	Released To	Date
05/10/13	Doris Guzman	DG	ESAT	Received for Transfer	(Y) N (Y) N	Weston	05/10/13
5/13/13	B. Mahany	gm	Weston	Storage + Validation	(Y) N (Y) N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		
					Y N Y N		

EPA-NE - DQO SUMMARY FORM

A separate Form should be completed for each sampling event. Refer to Attachment A for instructions on completing this form, Attachment B for a complete list of the parameter codes and Attachment C for an example of a completed form.

1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members _____ _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VTD048141741</u> (Include Operable Unit) Phase: ERA <u>SA/SI</u> pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) Other: <u>Site Reassessment</u>
--	--

2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) <u>Y</u> <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> <u>N</u> If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? <u>Y</u> <u>N</u>	
--	--

	3. a. Matrix Code ¹	SO	SO	SO	GW	GW	SD	SD	SD
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Congeners	PCB Aroclors	PCB Aroclors	PCB Congeners
c.	Preservation Code ³	5	5	5	5	5	5	5	5
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	DAS or CLP	DAS or CLP	DAS or CLP	DAS or CLP	CLP
e.	No. of Sample Locations	65	28	2	21	2	60	60	60
f.	Field QC: Field Duplicate Pairs	4	2		2	5	5	5	5
g.	Equipment Blanks	See RB	See RB	See RB	See RB	See RB	See RB	See RB	See RB
h.	VOA Trip Blanks	0	0	0	0	0	0	0	0
i.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler	1 per cooler
j.	Bottle Blanks	0	0	0	0	0	0	0	0
k.	Other: _____								
l.	PES sent to Laboratory	NA	6	TBD	3	TBD	NA	3	TBD
m.	Laboratory QC: Reagent Blank	0	0	0	0	0	0	0	0
n.	Duplicate	0	0	0	0	0	0	0	0
o.	Matrix Spike	0	2	0	1	0	1	0	0
p.	Matrix Spike Duplicate	0	2	0	1	0	1	0	0
q.	Other: _____								

4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: <u>Surface</u> <u>Subsurface</u> Other: <u>Other</u> Sediment Types: <u>Stream</u> <u>Pond</u> <u>Estuary</u> <u>Wetland</u> Other: _____ Expected Soil/Sediment Moisture Content: <u>High</u> <u>Low</u>	
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1. EPA Program: TSCA <u>CERCLA</u> RCRA DW NPDES CAA Other: _____ Projected Date(s) of Sampling <u>Spring (April/May) 2013</u> EPA Site Manager <u>Martha Bosworth</u> EPA Case Team Members _____ _____	Site Name <u>Jard Company Inc</u> Site Location <u>Bennington, Vermont</u> Assigned Site Latitude/Longitude <u>42° 53' 21.5" north/73° 11' 21.9" west</u> CERCLA Site/Spill Identifier No <u>VT048141741</u> (Include Operable Unit) Phase: ERA SA/SI pre-RI RI (phase I, etc.) FS RD RA post-RA (circle one) <u>Other: Site Reassessment</u>								
2. QAPP Title and Revision Date <u>Site Assessment Program Site Specific Quality Assurance Project Plan for Surface and Subsurface Soil/Source, Ground Water, and Sediment Sampling Jard Company Inc, Bennington, Vermont dated 11 January 2013</u> Approved by: <u>Martha Bosworth</u> Date of Approval: <u>TBD</u> Title of Approving Official: <u>Site Assessment Manager</u> Organization*: <u>EPA</u> *If other than EPA, record date approval authority was delegated: _____ EPA Oversight Project (circle one) <u>Y</u> <u>N</u> Type of EPA Oversight (circle one) PRP or FF Other: _____ Confirmatory Analysis for Field Screening <u>Y</u> <u>N</u> If EPA Oversight or Confirmatory: % splits <u>TBD</u> Are comparability criteria documented? <u>Y</u> <u>N</u>									
3. a.	Matrix Code ¹	SS	SS	SS	RB				
b.	Parameter Code ²	PCB Aroclors	PCB Aroclors	PCB Congeners	PCB Aroclors				
c.	Preservation Code ³	5	5	5	5				
d.	Analytical Services Mechanism	DAS or CLP	DAS or CLP	CLP	CLP Non- RAS				
e.	No. of Sample Locations	125	38	2	21				
f.	Field QC:								
g.	Field Duplicate Pairs	7	2		0				
h.	Equipment Blanks	See RB	See RB	See RB	0				
i.	VOA Trip Blanks	0	0	0	0				
j.	Cooler Temperature Blanks	1 per cooler	1 per cooler	1 per cooler	1 per cooler				
k.	Bottle Blanks	0	0	0	0				
l.	Other: _____								
m.	PES sent to Laboratory	NA	6	TBD	0				
n.	Laboratory QC:								
o.	Reagent Blank	0	0	0	0				
p.	Duplicate	0	0	0	0				
q.	Matrix Spike	0	2	0	0				
r.	Matrix Spike Duplicate	0	2	0					
s.	Other: _____								
4. Site Information Site Dimensions <u>Approximately 11.26 acres</u> List all potentially contaminated matrices <u>Surface and subsurface soil, sediment, ground water, and residential surface soil</u> Range of Depth to Groundwater <u>greater than 5 feet</u> Soil Types: <u>Surface</u> <u>Subsurface</u> Other: _____ Sediment Types: Stream Pond Estuary Wetland Other: _____ Expected Soil/Sediment Moisture Content: <u>High</u> Low									

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SO

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Alternatives
 Post-Remedial Action (quarterly monitoring) Remedial Action
 Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect surface and subsurface soil/source samples from the identified source area (capped former building footprint and excavated staged material) on the property for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other:
 Split Spoon Dredge Trowel Other: Direct sampling
- Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations NA for source samples _____
 Circle Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	EIA-FLDPCB2.SOP		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I. EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria:
 Validation Tier (circle one) I II III Partial Tier III:
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix. Matrix Code¹ GW

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action Remediation Alternatives
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect ground water samples from ground water monitoring wells previously installed on and off the property for PCB Aroclors fixed based laboratory analysis. A subset of samples will be submitted for PCB Congener analysis.

 Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	1.0 µg/L
PCB Congeners	Above Background (Assumed to be ND)	100 to 1,000 pg/L

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
Positive Displacement Pump Faucet or Spigot Other: _____
Split Spoon Dredge Trowel
 Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Ground Water monitoring wells TBD
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
PCB Congeners	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix.

Matrix Code¹ SD

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Removal Actions
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect sediment samples from a wetland located west of Park Street for PCB Aroclors field screening and fixed based laboratory analysis. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling
 Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Wetland area northeast of the Jard Company Inc property
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

When multiple matrices will be sampled during a sampling event, complete Sections 5-10 for each matrix. Matrix Code¹ SS

5. Data Use (circle all that apply) Site Investigation/Assessment PRP Determination Removal Actions
 Nature and Extent of Contamination Human and/or Ecological Risk Assessment Remediation Alternatives
 Engineering Design Remedial Action
 Post-Remedial Action (quarterly monitoring) Other: _____

Draft DQO Summary Form 11/96

6. Summarize DQOs: Collect surface soil samples from residential properties downgradient of the Jard Company Inc property and within 200 feet of the residences for PCB Aroclors field screening and fixed based laboratory analysis in source areas on the Jard Company Inc property. A subset of samples will be submitted for fixed laboratory analysis with a smaller subset submitted for PCB Congener analysis.

Complete Table if applicable

COCs	Action Levels	Analytical Method-Quantitation Limits
PCB Aroclors (Field Screening)	Above Background (Assumed to be ND)	0.2 mg/Kg
PCB Aroclors (Fixed Lab)	Above Background (Assumed to be ND)	33 ug/kg
PCB Congeners	Above Background (Assumed to be ND)	20 to 100 ng/Kg

7. Sampling Method (circle technique) Bailer Low flow pump (Region I method: Yes No) Peristaltic Pump
 Positive Displacement Pump Faucet or Spigot Other: _____
 Split Spoon Dredge Trowel Other: Direct sampling

Sampling Procedures (SOP name, No., Rev. #, and date) _____
 List Background Sample Locations Residential properties located north of the Jard Company Inc property
 Circle: Grab or Composite _____
 "Hot spots" sampled: Yes No

8. Field Data (circle) ORP pH Specific Conductance Dissolved O₂ Temperature Turbidity
 Other: _____

9. Analytical Methods and Parameters

Method title/SOP name	Method/SOP Identification number	Revision Date	Target Parameters (VOA, SV, Pest/PCB, Metals, etc.)
PCB Aroclors (Field Screening)	SOM01.2		PCBs
PCB Aroclors	SOM01.2 or DAS Equivalent		PCBs
Total Metals (including Hg)	CBC01.0		PCB Congeners

10. Validation Criteria (circle one) 1. Region I EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, Part II, III or IV
 2. Other Approved Validation Criteria: _____
 Validation Tier (circle one) I II III Partial Tier III: _____
 Company/Organization Performing Data Validation Weston Solutions, Inc./START III Prime or Subcontractor (circle one)

11. Company Name Weston Solutions, Inc. Contract Number EP-W-05-042
 Contract Name (e.g. START, RACS, etc.) START III Work Assignment No. 20114-081-998-0850
 Person Completing Form/Title G. Hornok/Lead Project Scientist Date of DQO Summary Form Completion 11 January 2013

Matrix Codes¹ - Refer to Attachment B, Part I
 Parameter Codes² - Refer to Attachment B, Part II

Preservation Codes³

1. HCl to pH ≤ 2
2. HNO₃
3. NaHSO₄
4. H₂SO₄
5. Cool @ 4°C (± 2°)
6. NaOH

7. K₂Cr₂O₇
8. Freeze
9. Room Temperature (avoid excessive heat)
10. Other (Specify)
- N. Not preserved

* - To supplement Matrix Codes and/or Parameter Codes contact the QA Unit